

USER GUIDE

Essential Studio for EJ2 React

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Toolbar

Getting Started

This section explains you the steps required to create a simple Toolbar and demonstrate the basic usage of the Toolbar control.

Dependencies

Below is the list of minimum dependencies required to use the Toolbar component.

```
`javascript
|-- @syncfusion/ej2-react-navigations
|-- @syncfusion/ej2-base
|-- @syncfusion/ej2-react-base
|-- @syncfusion/ej2-navigations
|-- @syncfusion/ej2-buttons
|-- @syncfusion/ej2-popups
`
```

Setup for Local Development

To set-up a React application, choose any of the following ways. The best and easiest way is to use the [create-react-app](#). It sets up your development environment in JavaScript and improvise your application for production. Refer to the [installation instructions](#) of `create-react-app`.

```
`bash
npx create-react-app my-app
cd my-app
npm start
`
```

or

```
`bash
yarn create react-app my-app
cd my-app
yarn start
`
```

To set-up a React application in `TypeScript` environment, run the following command.

```
`bash
npx create-react-app my-app --template typescript
cd my-app
npm start
```

`

Besides using the [npm](#) package runner tool, also create an application from the `npm init`. To begin with the `npm init`, upgrade the `npm` version to `npm 6+`.

```
`bash
```

```
npm init react-app my-app
```

```
cd my-app
```

```
npm start
```

Adding Syncfusion packages

All the available Essential JS 2 packages are published in [npmjs.com](https://www.npmjs.com) public registry.

To install Accordion component, use the following command

`

```
npm install @syncfusion/ej2-react-navigations --save
```

`

Adding CSS reference

Add components style as given below in `src/App.css`.

```
`css
```

```
@import '../node_modules/@syncfusion/ej2-base/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-buttons/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-popups/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-react-navigations/styles/material.css';
```

`

To refer `App.css` in the application then import it in the `src/App.tsx` file.

Initialize the Toolbar with commands

The Toolbar can be rendered by defining an array of [items](#). An item is rendered with text by defining the default item type as a `Button`. For more information about item configuration, refer the [Item Configuration](#) section.

- Import the Toolbar component to your `src/App.tsx` file using following code.

```
`ts
```

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from '@syncfusion/ej2-react-navigations';
```

```
import * as React from "react";
```

```
const ReactApp = () => {
```

```
  return (
```

```
    <ToolbarComponent id='toolbar'>
```

```
      <ItemsDirective>
```

```

<ItemDirective text="Cut" />
<ItemDirective text="Copy" />
<ItemDirective text="Paste" />
<ItemDirective type="Separator" />
<ItemDirective text="Bold" />
<ItemDirective text="Italic" />
<ItemDirective text="Underline" />
</ItemsDirective>
</ToolbarComponent>
);
}
export default ReactApp;
`

```

- Now, run the application in the browser using the following command.

```

`bash
npm start
`

```

Initialize the Toolbar using HTML elements

The Toolbar component can be rendered based on the given HTML element using `<ToolbarComponent>`. You need to follow the below structure of HTML elements to render the Toolbar inside the `<ToolbarComponent>` tag.

```

<ToolbarComponent> --> Root Toolbar Element
<div> --> Toolbar Items Container
<div> --> Toolbar Item Element
</div>
</div>
</ToolbarComponent>
`

```

INDEX.JSX

```

import { ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from 'react-dom';
const ReactApp = () => {
  return (<ToolbarComponent>

```

```

    <div>
      <div><button className='e-btn e-tbar-btn'>Cut</button> </div>
      <div><button className='e-btn e-tbar-btn'>Copy</button> </div>
      <div><button className='e-btn e-tbar-btn'>Paste</button> </div>
      <div className='e-separator'> </div>
      <div><button className='e-btn e-tbar-btn'>Bold</button> </div>
      <div><button className='e-btn e-tbar-btn'>Italic</button> </div>
    </div>
  </ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.TSX

```

import { ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from 'react-dom';
const ReactApp = () => {
  return (
    <ToolbarComponent>
      <div>
        <div><button className='e-btn e-tbar-btn'>Cut</button> </div>
        <div><button className='e-btn e-tbar-btn'>Copy</button> </div>
        <div><button className='e-btn e-tbar-btn'>Paste</button> </div>
        <div className='e-separator'> </div>
        <div><button className='e-btn e-tbar-btn'>Bold</button> </div>
        <div><button className='e-btn e-tbar-btn'>Italic</button> </div>
      </div>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components" />
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {
      color: #008cff;
      height: 40px;

```

```

        left: 45%;
        position: absolute;
        top: 45%;
        width: 30%;
    }
    .custom_bold .e-tbar-btn-text {
        font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
        font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
        text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
        font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
        font-family: 'Material_toolbar';
        font-size: 16px;
        font-style: normal;
        font-weight: normal;
        font-variant: normal;
        text-transform: none;
    }
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

See Also

- [How to add Toggle Button](#)

Note: You can refer to our [React Toolbar](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Toolbar Example](#) that shows you how to render the Toolbar in React.

Item configuration in React Toolbar component

The Toolbar can be rendered by defining an array of [items](#). Items can be constructed with the following built-in command types or item template.

Button

Button is the default command [type](#), and it can be rendered by using the [text](#) property.

Properties of the button command type:

Property	Description
----------	-------------

text	The text to be displayed for button.
----------------------	--------------------------------------

[id](#) | The ID of the button to be rendered. If the ID is not given, auto ID is generated.

[prefixIcon](#) | Defines the class used to specify an icon for the button. The icon is positioned before the text if text is available or the icon alone button is rendered.

[suffixIcon](#) | Defines the class used to specify an icon for the button. The icon is positioned after the text if text is available. If both [prefixIcon](#) and [suffixIcon](#) are specified, only [prefixIcon](#) is considered.

[width](#) | Used to set the [width](#) of the button.

[align](#) | Specifies the location for aligning Toolbar items.

Separator

The **Separator** type adds a vertical separation between the Toolbar single/multiple commands.

INDEX.JSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
 '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (<ToolbarComponent>
    <ItemsDirective>
      <ItemDirective text="Cut"/>
      <ItemDirective text="Copy"/>
      <ItemDirective type="Separator"/>
      <ItemDirective text="Paste"/>
      <ItemDirective type="Separator"/>
      <ItemDirective text="Undo"/>
      <ItemDirective text="Redo"/>
    </ItemsDirective>
  </ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.TSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
 '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (
    <ToolbarComponent >
      <ItemsDirective>
        <ItemDirective text="Cut" />
        <ItemDirective text="Copy" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Paste" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Undo" />
        <ItemDirective text="Redo" />
      </ItemsDirective>
    </ToolbarComponent>
  );
};
```

```

}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
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      font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
      font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
      text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
      font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
      font-family: 'Material_toolbar';
      font-size: 16px;
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    @font-face {
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MDQ4PDxERehMUFBUWFhcXfXkYGRkaGhkZGBkXfXcWfHUUFBMSEREPDw4NDASLCQCHBgQDAgJTCak
ICAcHBgYFBQQEAgICAgICBAQFBQYGBWcICAKICQgJBWgGBWYFBQDQDAwIBAQEBAgMDBAUFBgGCAC
JCAkICQgIBwCGBgUFBQAQAgICAgIEBAUFBgYHBWgICQgJCAkHCAYHBgUFBAMDAgEBAQECAwMEBQU
GBWYIBWkI1gkJCAcIBgcGBQUEAwMCAQEBAQIDAwQFBQYHBggHCAkJCAkICAcHBgYFBQQEAgIBAQE
BAGIEBAUFBgYHBWgICQgJCQgHCAYHBgUFBAMDAgEBAQECAwMEBQUGBWYIBWgJCQgJCAgHBWYGBQU
EBAICAQEBAQICBAQFBQYGBWcICAn+xhoZGRgZFxcXfHxYVFBQTEhERDw8ODQwLCwkHBWYEAwIBAgI
CBAQFBQYGBWcICAKICAgIBWcGBgsGBWYIBWgICQkIBWgGBWYFBQDQDAwIBAQECAgMEBQUFBgCHCAg
JCQoKCwoMCwwNDA0NDg0ODg4XfXyWFRUUFBQTEExIRERAPDw4NDQsLCgkIBWYFBAMBAQECAwQGBWc
JCwsMDQ4PDxERehMUFBUWFhcXfXkYGRkaAgAAAAAD9A01AAgAVAAAAARchFSEHFzcnJREvHw4hPw4
9ASMVIREhFTM9AS8OIQ8OAtV1/k0BsHI/40D8+AICAwQFBQYHBWcICQkJCQHPCQkJCQgHBWcGBQU
EAWICXP4xAc9cAgIDBAUFBgCHBgJCQkJ/jEJCQkJCAcHBWYFBQDQDAgICoHRYdD7e3oD9RAkJCAg
IBWcGBgUEBAMCAQEBAQIDBAQFBgYHBWgICAKJzMwCvMzMCCQkICAgHBWYGBQQEAgIBAQEBAgMEBAU
GBgCHCAgICQADAAAAAAOvA/QAAwBHAf0AAAERIREHERUfDTMhMz8OES8OIyEjDw0nETMRITUhIw8
NA1X+DFsCagMEBQUGBgICAgJCQkB9AkJCQgICAcGBgUFBAMCAQEBAQIDBAUFBgYHCAgICQkJ/gw
JCQkICAgHBgYFBQDQDAgK2WQIT/e0JCQkIBWgHBgYFBQAQDAgEC4/2EAnwF/YgJCQgJCAcHBgYGBAQ

```
DAGICAgMEABYGBgcHCakIQkCeAkJCQgICAcGbgUFAwMDAQEDAwMFBqYGBwgICAkJsv2EAnxbAgiDBAUFBgyHCAgIcQAASAN4AAQAAAAAAAAABAQAAAAAAQAQAEAAQAAAAAAAAAgAHABEAQA  
AAAAAAAAWaqAbgAAQAAAAAAAABaaQCgaAQAAAAABQALADgAAQAAAAABGAQEEMAAAACgAsAFMAAQAAAAAACwASH8AAwABBakAAAAACAJEAAwABBakAAQagAJMAAWABBakAAgAOALMAAwABBakAAWA  
AMEAAwABBakABAAGAOEEAAwABBakABQAWAQEAawABBakABGaARCaAwABBakACgBYATCaaWABBak  
ACwAKAY8gdG9vbGJhciltYXRlcmlhbFJJZlZ3VsYXJ0bzIySXMmFYLWlhHGdGVyaWFsdG9vbGJhciltYXR  
lcmlhbFZlnNpbzI4gMS4wdG9ybGJhciltYXRlcmlhbEZvbnQGZ2VuzXJhdGVkIHVzaW5nIFN5bmNNmdXNpbzI4gtTWV0cm8gU3RlZGlvdjZldLN5bmNmddXNpbzI4uY29tACAAdABvAG8AbABIAGEAcgAtAG0  
AYQB0AGUAacgBPAGEabABSAGUAZWblAGwAYQByAHQAwbBVAGwAYgbHAHALQtAGEadABLAHTIAaQB  
hAGwAdABvAG8AbABIAGEAcgAtAG0AYQB0AGUAacgBPAGEabABWAGUAacgBzagKAbwBuACAAMQAUADA  
AdABvAG8AbABIAGEAcgAtAG0AYQB0AGUAacgBPAGEabABGAG8AbgB0ACAAZwBlAG4AZQByAGEadAB  
LAGQAIBLIAHMaaQBuaGCAlABTAhkAbgBJAGYAdbzbAGKAbwBuACAATAQLAHQAacgBVACAAUwBOAHUA  
AzABPAG8AdWB3AhCALGbZAkhAbgBJAGYAdbzbAGKAbwBuAC4AYwBVAG0AAAAAAGAAAAAAAAAKAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAjAQIBAWEeAQUBBgEHAQgBCQEKAQSBDNAEQ4BDweQAREBEgeTARQBFQEWARCBGAZEZRARBgwEcAROBHgEfASABIQEIASMBJAQQVGv4df9PdXRrzkW50xzAwMQQTqaWN  
OdXLxZAwMQXTZXRoaw5nc18WMDEQQ29sb3JfcGlja2VyXzAwMHBBBGlnbl9DZW50ZXJfMDA2CExp  
bmVmMDAxDVVuZGVyYyglLnV8wMDemu29ydF9alUFfMDAxCFvuZGU9fMDAxEENoYXJ0OX2JlYmJsZV8  
wMDELrg93bmxyYWRFMDAPvgv4df9pbmrllbnRfMDAXekNoYXJ0XORvdWdobnV0XzAwMQIDbGVhc18  
wMDINTntvtYmVyaW5nXzAwMQxtb3JOXOEtlWl8WMDEKSXRhbGljXzAwMQTCdwxsZZXRXzXzAwMQlQYXN  
OZV8wMDEIUmvkb18WMDEFpq2hhcnRfcmfkyXXJfMDAXDFsaWDuxljPz2h0XzAwMQLUYwJSZV8wMDE  
OQwxpz25FTGVmdF8wMDEITWWudV8wMDEHQ3VOXzAwMGhCb2xxXzAwMRFBbGlnbl9kdXNOawZ5XzA  
wmQPszSwxyYWRFMDAXClnlYXJJaF8wMDEKVXBsb2FkXzAwMQPEZXNPz25fmDA1ckV4cG9ydF8wMDE  
IQ29weV8wMDIAAA==) format('truetype');  
  
font-weight: normal;  
font-style: normal;
```

```

        .e-descending-icon:before {
            content: "\e707";
        }
    </style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading...</div>
    </div>
</body>
</html>

```

If **Separator** is added as first or last item, it is not visible.

Input

The **Input** type is only applicable for adding **template** elements when the **template** property is defined as an **object**. Input type creates an **input element** internally that acts as the container for **Syncfusion** input based components.

Note: Set toolbar item **type** property value as **Input** only for Input components.

NumericTextBox

E.g. The following code explains about how to add **NumericTextBox** component to the Toolbar.

- The **NumericTextBox** component can be included by importing the **NumericTextBox** module from ej2-inputs.
- Initialize the **NumericTextBox** in template property, in which the Toolbar item type set as **Input**.
- Related **NumericTextBox** component properties are also can be configured like as below.

```
`javascript
```

```
new NumericTextBox( { format: 'c2' } )
```

```
,
```

DropDownList

E.g. The following code explains about how to add **DropDownList** component to the Toolbar.

- The **DropDownList** component can be included by importing the **DropDownList** module from ej2-dropdowns.
- Initialize the **DropDownList** in template property, in which the Toolbar item type set as **Input**.
- Related **DropDownList** component properties are also can be configured like as below.

```
`javascript
```

```
new DropDownList({ width:100 })
```

```
,
```

CheckBox

E.g. The following code explains about how to add **CheckBox** component to the Toolbar.

- The `CheckBox` component can be included by importing the `CheckBox` module from `ej2-buttons`.
- Initialize the `CheckBox` in template property, in which the Toolbar item type set as `Input`.
- Related `CheckBox` component properties are also can be configured like as below.

```
`javascript
```

```
new CheckBox({ label: 'Checkbox', checked: true })
```

```
,
```

RadioButton

E.g. The following code explains about how to add `RadioButton` component to the Toolbar.

- The `RadioButton` component can be included by importing the `RadioButton` module from `ej2-buttons`.
- Initialize the `RadioButton` in template property, in which the Toolbar item type set as `Input`.
- Related `RadioButton` component properties are also can be configured like as below.

```
`javascript
```

```
new RadioButton({ label: 'Radio', name: 'default', checked: true })
```

```
,
```

Above steps applicable for all 'Syncfusion' input based components.

INDEX.JSX

```
import { CheckBoxComponent, RadioButtonComponent } from '@syncfusion/ej2-react-buttons';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ItemDirective, ItemsDirective, ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  const data = ['Badminton', 'Basketball', 'Cricket', 'Golf', 'Hockey', 'Rugby'];
  const dropDownList = () => {
    return (<div>
      <DropDownListComponent dataSource={data} width={120} index={2} />
    </div>)
  }
  const numericText = () => {
    return (<div>
      <NumericTextBoxComponent format='c2'
value={1}></NumericTextBoxComponent>
    </div>)
  }
  const checkBox = () => {
    return (<div>
      <CheckBoxComponent label='Checkbox'
checked={true}></CheckBoxComponent>

```



```

    </div>
  }
  const radioButton = () => {
    return (<div>
      <RadioButtonComponent label='Radio' name='default'
checked={true}></RadioButtonComponent>
    </div>)
  }
  return (
    <ToolbarComponent >
      <ItemsDirective>
        <ItemDirective text="Cut" />
        <ItemDirective text="Copy" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Undo" />
        <ItemDirective text="Redo" />
        <ItemDirective type="Separator" />
        <ItemDirective type="Input" template={numericText} />
        <ItemDirective type="Input" template={dropDownList} />
        <ItemDirective type="Input" template={checkBox} />
        <ItemDirective type="Input" template={radioButton} />
      </ItemsDirective>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.TSX

```

import { CheckBoxComponent, RadioButtonComponent } from '@syncfusion/ej2-react-buttons';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ItemDirective, ItemsDirective, ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  const data: any = ['Badminton', 'Basketball', 'Cricket', 'Golf', 'Hockey', 'Rugby'];
  const dropDownList = () => {
    return (<div>
      <DropDownListComponent dataSource={data} width={120} index={2} />
    </div>)
  }
  const numericText = () => {
    return (<div>
      <NumericTextBoxComponent format='c2'
value={1}></NumericTextBoxComponent>
    </div>)
  }
  const checkBox = () => {
    return (<div>
      <CheckBoxComponent label='Checkbox'
checked={true}></CheckBoxComponent>

```

```

    </div>
  }
  const radioButton = () => {
    return (
      <RadioButtonComponent label='Radio' name='default'
checked={true}></RadioButtonComponent>
    </div>
  )
}
return (
  <ToolbarComponent >
    <ItemsDirective>
      <ItemDirective text="Cut" />
      <ItemDirective text="Copy" />
      <ItemDirective type="Separator" />
      <ItemDirective text="Undo" />
      <ItemDirective text="Redo" />
      <ItemDirective type="Separator" />
      <ItemDirective type="Input" template={numericText} />
      <ItemDirective type="Input" template={dropDownList} />
      <ItemDirective type="Input" template={checkBox} />
      <ItemDirective type="Input" template={radioButton} />
    </ItemsDirective>
  </ToolbarComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;

```

```

}
.custom_bold .e-tbar-btn-text {
  font-weight: 900;
}
.custom_italic .e-tbar-btn-text {
  font-style: italic;
}
.custom_underline .e-tbar-btn-text {
  text-decoration: underline red;
}
.e-txt-casing .e-tbar-btn-text {
  font-variant: small-caps;
}
.e-tbar-btn .e-icons {
  font-family: 'Material_toolbar';
  font-size: 16px;
  font-style: normal;
  font-weight: normal;
  font-variant: normal;
  text-transform: none;
}
@font-face {
  font-family: 'Material_toolbar';
  src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
19QAAAswAACNMaGVhZA6okZMAAADQAAAAANmhoZWEIUQQkAAAArAAAACRobXR4jAAAAAAAAAAAAAC
MbG9jYYc0kUIAAAKEAAAAASG1heHABOWG8AAABCAAAACBuYW11x/RZbQAAJhgAAAKRcG9zdJZeEVU
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AAgAAAAoACgAAAP8AAAAAAAAAAQQAZAABQAAAokCzAAAAI8CiQLMAAAB6wAyAQgAAAIABQMAAAA
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AAAQAAAAEAAAAABAAAAAQAAAAAAACAAAAAwAAABQAAwABAAAAFAAEAGQAAAAEAAQAA5yH//wA
A5wD//wAAAAEABAAAAEAAgADAAQABQAGAAcACAAJAAoACwAMAA0ADgAPABAAEQASABMAFAAVABY
AFwAYABkAGgAbABwAHQAeAB8AIAAhACIAAAAAADIAjgFwAfgCIAKYAxIDSAO2BRYFMAVcBnIGugb
2ByoHQgguCNYJRgn6CiQKiAquCsgMFgzADOYNzg7WDvAQyBEyEaYABwAAAAAD9APzAAMABwAKAA4
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+Svr6A+j8GaxefV67Pl19Xvr6AfScXgAAAAIAAAAA/QD9AAEAEgAACUhNxc3AREfDyE/DxEvDyE
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KCwsLAwoLCwsKCgkICAgGBgQEAWEBAQEDBAQGBgGICAKKCgsLAAACAAAAAAPzA/QAQAC/AAABFQ8
PLw8/Dx8OAQ8ELwErAQ8FFR8FBxcPAxUFbzBNx8LowI/Cx8BOWE/Bj0BLwQ/Aic/BC8HKwEHLws
rAg8FARIBAgUGBwkKDAwODxAQERITEhIREQ8PDgWMCgkHBgUCAQECCBYHCQoMDA4PDxEREhITEhE
QEA8ODAwKCQCGBQL+zxUWFhUWfwUFB AUDBANqAgEBAGIDbgMDBwMCAQEBAmkDBAQEBQSEFBYWFxQ
CAGIDBAQEBCwFBAQEAWICAhQXFRYVgAQFBQOEAWNoAgEBAGIDcAEBAQNvAgIBAQEBA2gDBAQFBAW
DFBYWFxIBAgMDAwQFBcWFBQDDBAICAgAJCRIQEBAODgwLCgkHBgQDAQEDBAYHCQoLDA4OEBAQEhI
SEhAQEA4ODAsKCQCGBAMBAQMEBgCJCgsMDg4QEBASAc6ECwWNDjIBAQICA7QEBQQFBAMEUjIyVgM
EBAQFBAWAwICATMODQwLhAQEBAMCAGECAGIDBAMEhAsMDQ4yAQECAGOWBAQFBAUEAwRSDAwAMLY
DBAQEBQQFsAMCAgEzDg0MC4QEAWQDAGICAgICAWQDAAAAAAMAAAAA/MD2AAyADUAaQAAJRUFdTs
BPw41LwgPBwMhAScXaq8GHQEfBQEfBjsBPwYBPwYvBwEDFgIDBAQGBgCICQkKCgsLCwsLCwoKCQg
ICAYGBAQDAQEDBACMCQoLFCMtFQoJCQCfBHv96gEL04X+4gYFBAQCAgICAgIEBAUBNwCHBwgHCAC
IBwgHCAGHBwYBOAUEAwMCAQEBAQIDAwQFBv4PlwsLCwoKCQkIBwYGBAQDAGIDBAQGBgCICQkKCgs
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```

```
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VFRgYFxcXFhYVfHQUFBMTehGwARi6CwsJCgGICAYGBgQEAWIBAQBAGIDBAQFBQYHBwgICQkKFRY
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MCwsKCgkIBwYFBQMCAGMFBQYHCAkKCgsLDA0MDQ0MCwsKCgkIBwYFBQMC/scBAQEFBwgKCwYGBwY
GBgWKCACFAQEBAQUHCAoMBgYGBWYGCwoIBWUBAQHzAQECBAQEAgYGCACICQkJCgoJCQgJBwgGBgY
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AJQBpAKgArADwAAABFT8bIw8GBR8PNSMvDT8CJw8OHw8TByMPDBc/AzsBHwUzHwYzLxcjJREhEQc
RHw8hPw8RLw8hDw4CKg8QDw8ODg4NDQwMDAwKCwoKCQgJDw0KCQQDAgLxBAUGBgJC/7WDQ0NDg4
PDw8PEA8QEBAQEAOKCQkJCQgIBgQEBAUDAQEDBKsKCQgIBwYGBQUDAwMBAQEBAQEDAwQEBQYHBwg
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HBwgJCQkJCvzaCgkJCQkIBwcGBgUEAwMBAZz0AgMDBAQFBQYHBwgICQkJCgsLCwsYGHsbDw4PDwo
KCQgIBwAUDAsLCgkIBwcGBQQAQEBAGIBAFEBAMEBQYIBQcGBw8PEA8ODa0NDQ0ODg4ODw8PDw8PEA8
PEA8PEA8ODw8ODg0ODQ0MAj8BBAMDBAQFBgCHBwkJCqoGBQQAQICBAMJEACHAgJCh0dHRSaGRc
XCgoKCQgICAcGBgYEBQMDBj781AMsA/zaCgkJCQkIBwcGBgUEAwMBAQEBAgQEBQYGBwICQkJCQo
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MEBQUFBgcGCACICAgICAcHBgYGBQQAQEBAGMCAQECAwMEBAUGBgYHBwgICAgIBwgGBwYFBQUEAwMBA
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MEBQUFBgcGCACICAgICAcHBgYGBQQAQEBAGMCAQECAwMEBAUGBgYHBwgICAgIBwgGBwYFBQUEAwMBA
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```

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AAAADtQP0AAMACgAANYE1IRMzESERMwFKA2z81A/zAWjz/1kMfQHN/p0BYwGeAAAAAUAAAAA/Q

[illegible]

```

        content: "\e721"
      }
      .e-paste-icon:before {
        content: "\e712"
      }
      .e-color-icon:before {
        content: "\e703";
      }
      .e-bold-icon:before {
        content: "\e71a"
      }
      .e-underline-icon:before {
        content: "\e706";
      }
      .e-clear-icon:before {
        content: "\e70d"
      }
      .e-italic-icon:before {
        content: "\e710"
      }
      .e-ascending-icon:before {
        content: "\e70f";
      }
      .e-descending-icon:before {
        content: "\e707";
      }
    }
  </style>
</head>
<body>
  <div id='toolbar'>
    <div id='loader'>Loading....</div>
  </div>
</body>
</html>

```

Enabling tab key navigation in Toolbar

The [tabIndex](#) property of a Toolbar item is used to enable tab key navigation for the item. By default, the user can switch between items using the arrow keys, but the [tabIndex](#) property allows you to switch between items using the Tab and Shift+Tab keys as well.

To use the [tabIndex](#) property, you need to set it for each Toolbar item that you want to enable tab key navigation. The [tabIndex](#) property should be set to a positive integer value. A value of 0 or a negative value will disable tab key navigation for the item.

For example, to enable tab key navigation for two Toolbar items, you can use the following code:

```

`ts
import { ItemDirective, ItemsDirective, ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () {
  return (

```

```

<ToolbarComponent id='toolbar'>
  <ItemsDirective>
    <ItemDirective text="Item 1" tabIndex={1} />
    <ItemDirective text="Item 2" tabIndex={2} />
  </ItemsDirective>
</ToolbarComponent>
);
}

const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
`

```

With the above code, the user can switch between the two Toolbar items using the Tab and Shift+Tab keys, in addition to using the arrow keys. The items will be navigated in the order specified by the [tabIndex](#) values.

If you set the [tabIndex](#) value to 0 for all Toolbar items, tab key navigation will be based on the element order rather than the [tabIndex](#) values. For example:

```

`ts
import { ItemDirective, ItemsDirective, ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";

const ReactApp = () {
  return (
    <ToolbarComponent id='toolbar'>
      <ItemsDirective>
        <ItemDirective text="Item 1" tabIndex={0} />
        <ItemDirective text="Item 2" tabIndex={0} />
      </ItemsDirective>
    </ToolbarComponent>
  );
}

const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
`

```


In this case, the user can switch between the two Toolbar items using the Tab and Shift+Tab keys, and the items will be navigated in the order in which they appear in the DOM.

Example:

Here is an example of how you can use the [tabIndex](#) property to enable tab key navigation for a Toolbar component:

INDEX.JSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
'@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
    return (<ToolbarComponent width="300" overflowMode="Scrollable">
        <ItemsDirective>
            <ItemDirective text="Cut" prefixIcon="e-cut-icon tb-icons"
tabIndex={0}/>
            <ItemDirective text="Copy" prefixIcon="e-copy-icon tb-icons"
tabIndex={0}/>
            <ItemDirective text="Paste" prefixIcon="e-paste-icon tb-icons"
tabIndex={0}/>
            <ItemDirective type="Separator"/>
            <ItemDirective text="Bold" prefixIcon="e-bold-icon tb-icons"
tabIndex={0}/>
            <ItemDirective text="Underline" prefixIcon="e-underline-icon tb-
icons" tabIndex={0}/>
            <ItemDirective text="Italic" prefixIcon="e-italic-icon tb-icons"
tabIndex={0}/>
            <ItemDirective text="Color-Picker" prefixIcon="e-color-icon tb-
icons" tabIndex={0}/>
            <ItemDirective type="Separator"/>
            <ItemDirective text="A-Z Sort" prefixIcon="e-ascending-icon tb-
icons" tabIndex={0}/>
            <ItemDirective text="Z-A Sort" prefixIcon="e-descending-icon tb-
icons" tabIndex={0}/>
            <ItemDirective text="Clear" prefixIcon="e-clear-icon tb-icons"
tabIndex={0}/>
        </ItemsDirective>
    </ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.TSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
'@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
    return (
        <ToolbarComponent width="300" overflowMode="Scrollable">
            <ItemsDirective>
                <ItemDirective text="Cut" prefixIcon="e-cut-icon tb-icons"
tabIndex={0} />
            </ItemsDirective>
        </ToolbarComponent>
    );
}
```

```

        <ItemDirective text="Copy" prefixIcon="e-copy-icon tb-icons"
tabIndex={0} />
        <ItemDirective text="Paste" prefixIcon="e-paste-icon tb-icons"
tabIndex={0} />
        <ItemDirective type="Separator" />
        <ItemDirective text="Bold" prefixIcon="e-bold-icon tb-icons"
tabIndex={0} />
        <ItemDirective text="Underline" prefixIcon="e-underline-icon tb-
icons" tabIndex={0} />
        <ItemDirective text="Italic" prefixIcon="e-italic-icon tb-icons"
tabIndex={0} />
        <ItemDirective text="Color-Picker" prefixIcon="e-color-icon tb-
icons" tabIndex={0} />
        <ItemDirective type="Separator" />
        <ItemDirective text="A-Z Sort" prefixIcon="e-ascending-icon tb-
icons" tabIndex={0} />
        <ItemDirective text="Z-A Sort" prefixIcon="e-descending-icon tb-
icons" tabIndex={0} />
        <ItemDirective text="Clear" prefixIcon="e-clear-icon tb-icons"
tabIndex={0} />
    </ItemsDirective>
</ToolbarComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Syncfusion React Toolbar Sample</title>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta name="description" content="Essential JS 2 for React Components"
/>
    <meta name="author" content="Syncfusion" />
    <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
    <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
    <script src="systemjs.config.js"></script>
    <style>
        #loader {
            color: #008cff;
            height: 40px;
            left: 45%;
            position: absolute;
            top: 45%;
            width: 30%;
        }
    </style>

```

```

.custom_bold .e-tbar-btn-text {
  font-weight: 900;
}
.custom_italic .e-tbar-btn-text {
  font-style: italic;
}
.custom_underline .e-tbar-btn-text {
  text-decoration: underline red;
}
.e-txt-casing .e-tbar-btn-text {
  font-variant: small-caps;
}
.e-tbar-btn .e-icons {
  font-family: 'Material_toolbar';
  font-size: 16px;
  font-style: normal;
  font-weight: normal;
  font-variant: normal;
  text-transform: none;
}
@font-face {
  font-family: 'Material_toolbar';
  src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAKAIAAAwAgTlMvMjltShMAAAEoAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
19QAAAswAACNMaGvHZA6okZMAAADQAAAAANmhoZWEIUQqkAAAArAAAAACRobXR4jAAAAAAAYAAAC
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PPPUACwQAAAAAANXLJlEAAAAA1csmUQAAAAAD9AP0AAAACAACAAAAAAAAAAAAEAAAAjAbAADgAAAA
AAgAAAAoACgAAAP8AAAAAAAAAAQQAZAABQAAAokCzAAAAI8CiQLMAAAB6wAyAQgAAAIABQMAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAUGZFZABA5wDnIQAAAAAXAQAAAAAAAAABAAAAAAAAABAAAAQAAAA
EAAAAABAAAAQAAAAEAAAAABAAAAQAAAAEAAAAABAAAAQAAAAEAAAAABAAAAQAAAAEAAAAABAA
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```
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    .e-paste-icon:before {
        content: "\e712"
    }
    .e-color-icon:before {
        content: "\e703";
    }
    .e-bold-icon:before {
        content: "\e71a"
    }
    .e-underline-icon:before {
        content: "\e706";
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    .e-clear-icon:before {
        content: "\e70d"
    }
    .e-italic-icon:before {
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    .e-descending-icon:before {
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}
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>
```

With the above code, the user can switch between the Toolbar items using the Tab and Shift+Tab keys, and the items will be navigated based on the element order.

[See Also](#)

- [How to set item wise custom template](#)

Responsive mode in React Toolbar component

This section explains the supported display modes of the Toolbar when the content exceeds the viewing area. Possible modes are:

- Scrollable
- Popup

Scrollable

The default overflow mode of the Toolbar is **Scrollable**. Scrollable display mode supports display of commands in a single line with horizontal scrolling enabled when commands overflow to available space.

- The right and left navigation arrows are added to the start and end of the Toolbar to navigate to hidden commands.
- You can also see the hidden commands using touch swipe action.
- By default, if navigation icon in the **left** side is disabled, you can see the hidden commands by moving to the **right**.
- By clicking the arrow or by holding the arrow continuously, hidden commands will become visible.
- If device navigation icons are not available, you can touch swipe to see the hidden commands of the Toolbar.



- Once the Toolbar reaches the last or first command, the corresponding navigation icon will be disabled and you can move to the opposite direction.



- You can continuously scroll the Toolbar content by holding the navigation icon.



INDEX.JSX


```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
 '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (<ToolbarComponent>
    <ItemsDirective>
      <ItemDirective text="Cut" prefixIcon="e-cut-icon tb-icons"/>
      <ItemDirective text="Copy" prefixIcon="e-copy-icon tb-icons"/>
      <ItemDirective text="Paste" prefixIcon="e-paste-icon"/>
      <ItemDirective type="Separator"/>
      <ItemDirective text="Bold" prefixIcon="e-bold-icon tb-icons"/>
      <ItemDirective text="Underline" prefixIcon="e-underline-icon tb-
icons"/>
      <ItemDirective text="Italic" prefixIcon="e-italic-icon tb-icons"/>
      <ItemDirective text="Color-Picker" prefixIcon="e-color-icon tb-
icons"/>
      <ItemDirective type="Separator"/>
      <ItemDirective text="A-Z Sort" prefixIcon="e-ascending-icon tb-
icons"/>
      <ItemDirective text="Z-A Sort" prefixIcon="e-descending-icon tb-
icons"/>
      <ItemDirective text="Clear" prefixIcon="e-clear-icon tb-icons"/>
    </ItemsDirective>
  </ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.TSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
 '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (
    <ToolbarComponent >
      <ItemsDirective>
        <ItemDirective text="Cut" prefixIcon="e-cut-icon tb-icons" />
        <ItemDirective text="Copy" prefixIcon="e-copy-icon tb-icons" />
        <ItemDirective text="Paste" prefixIcon="e-paste-icon" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Bold" prefixIcon="e-bold-icon tb-icons" />
        <ItemDirective text="Underline" prefixIcon="e-underline-icon tb-
icons" />
        <ItemDirective text="Italic" prefixIcon="e-italic-icon tb-icons" />
        <ItemDirective text="Color-Picker" prefixIcon="e-color-icon tb-
icons" />
        <ItemDirective type="Separator" />
        <ItemDirective text="A-Z Sort" prefixIcon="e-ascending-icon tb-
icons" />
        <ItemDirective text="Z-A Sort" prefixIcon="e-descending-icon tb-
icons" />
        <ItemDirective text="Clear" prefixIcon="e-clear-icon tb-icons" />
      </ItemsDirective>
    </ToolbarComponent >
  );
}
```

```

    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;
    }
    .custom_bold .e-tbar-btn-text {
      font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
      font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
      text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
      font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
      font-family: 'Material_toolbar';
      font-size: 16px;
      font-style: normal;
      font-weight: normal;
      font-variant: normal;
      text-transform: none;
    }
    @font-face {

```

```
font-family: 'Material_toolbar';
src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
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```

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 PEA8PEA8ODw8ODg0ODQ0MAj8BBAMDBAQFBgCHBwkJCqoGBQQAQICBAMJEACHCAgJCh0dHRsaGRc
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 PGC8YPQE/FzsBHxcFHx8/DxcVATcBIyc/Dj0BLx0rAQ8dAoABAgIDAQWFBQUNDxATEXyLCwwMDAw
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 NDAwMDAsLFhMTEA8NBQUBFAMDAgIB/Y0BAQMDBAUGBgICQkLCwsNDA4ODg8QEBARERISEhMTEExE
 REBEQEBAQDw8ODg4ODA0OAR1W/uMuDgoKCQkIBwYGBgQEAWMCAQICAwQFBgCHCAkKCgsMDA0NDg8
 PDxAREREREhMSEhMTEhMSEhIRERAQEA8ODg4MDQsLCwkJCAgGBgUEAwMBAoIODQ0MDQWMDAsLFRQ
 SEQ4NBgUEBAQDAgEBAQEBAQIDBAQEBAQYNDhESFBULCwwMDA0MDQ0ODQ0NDQWMDAwLCxUUEhEODQY
 FBQDDAwICAQECAgMDBAUFBg0OERIUFQsLDawMDA0NDQ0UEhMSEhIRERAQEA8ODg4NDAsLCwkJCAg
 GBgUEBAIBAQEBAgIEBAUFBgCHCAgJCgoSLf7jVgEfDg0NDQ4ODg8PDxQEBERERITEhISEhIRERA
 QEA8ODg4NDAwLCgoICQChBQUEBAICAgIEBAUFBwCJCAoKCwwMDQ4ODg8QEBARERISEhITAAAAAgA
 AAAADtQP0AAMACgAANYe1IRMzESERMwFKA2z81A/zAWjz/1kMfQHN/p0BYwGeAAAAAAUAAAAA/Q
 D9AA/AH8AvwD/Aa8AAEPDisBLw4/Dx8OBQ8OKwEvDj8PHw41FQ8OLw49AT8OHw4FFQ8OLw49AT8
 OHw4BHx8zPw09AS8MPQE/DjsBPx01Lx8PHgOFAQECAgQEBUGBgCHCAgJCAkJCACIBgcGBQUEAwM
 CAQEBAQIDAQWFBQYHBggHCAkJCAkJBwgHBgYFBQQEAgIB/Z4BAQIDAQWFBQYGBwgHCAkJCAkJBwg
 HBgYFBQDDAwIBAQEBAgMDBAUFBgYHCACICQgJCQgHCAcGBgUFBAMDAgEBvQECAwQEBAWGBgCHCAg
 ICQkICAgHBwCfBgQFAwMCAQECAwMFBAYFBwCHCAgICQkICAgHBwYGBgQEBAWMAf7qAQIDAUEBgU
 HBwCICAgJCQgICACHBgYGBAQEAWIBAQIDBAQEBAWYGBwCICAgJCQgICACHBwUGBAUDAwIB/kQBAgM
 EBgCHCQsLDA0ODw8RERITFBQVFhYXfxcZGBkZGgkICAgHBwYGBgQEBAWMAQECAwMEBAoEBAMDAgE
 CAgIEBAUFBgYHBwgICALkDg8NDg0ODA0MDAwLCwsKCQoICQcIBgYGBQQEAWMCAQECAwQGBwCJCws
 MDQ4PDxEREhMUFBUWFhcXFxkYGRkaGhkZGBkXFxcWFhUUFMBMSEREPDw4NDAsLCQChBgQDAgJTCaK
 ICACHBgYFBQQEAgICAgICBAQFBQYGBwCICAKICQgJBwgGBwYFBQDDAwIBAQEBAgMDBAUFBgGCAC
 JCAKICQgIBwCGBgUFBQAQAgICAgIEBAUFBgYHBwgICQgJCAKHAYHBgUFBAMDAgEBAQECAwMEBQU
 GBwYIBwkI1gkJCACIBgcGBQUEAwMCAQEBAQIDAQWFBQYHBggHCAkJCAKICACHBgYFBQQEAgIBAQE
 BAgIEBAUFBgYHBwgICQgJCQgHCAHAYHBgUFBAMDAgEBAQECAwMEBQUGBwYIBwgJCQgJCAgHBwYGBQU
 EBAICAQEBAQICBAQFBQYGBwCICAn+xhoZGRgZFxcXFhYVFBQTEhERDw8ODQWLCwkHBwYEAwIBAgI
 CBAQFBQYGBwCICAKICAgIBwCGBgsGBwYIBwgICQkIBwgGBwYFBQDDAwIBAQECAgMEBQUFBgCHCAg
 JCQoKCwoMCwwNDA0NDg0ODg4XFxYWFUUFVBQTEExIRERAPDw4NDQsLCgkIBwYFBAMBAQECAwQGBwC
 JCwsMDQ4PDxEREhMUFBUWFhcXFxkYGRkaAgAAAAAD9A01AAgAVAAAAARchFSEHFzcnJREvHw4hPw4
 9ASMVIREhFTM9AS8OIQ8OAtV1/k0BsHI/4OD8+AIcAwQFBQYHBwCICQkJCQHPCQkJCQgHBwCGBQU
 EAwICXP4xAc9cAgIDBAUFBgCHBgJCQkJ/jEJCQkJCACHBwYFBQDDAgICoHRYdD7e3oD9RAkJCAg
 IBwCGBgUEBAWMAQEBAQIDBAQFBgYHBwgICAKJzMwCvMzMQCkICAgHBwYGBQQEAWIBAQEBAgMEBAU
 GBgCHCAgICQADAAAAAAAOvA/QAAwBHAf0AAAERIREHERUfDTMhMz8OES8OIyEjDw0nETMRITUhIw8
 NA1X+DFsCAgMEBQUGBgCICAgJCQkB9AkJCQgICACGBgUFBAMCAQEBAQIDBAUFBgYHCagICQkJ/gw

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```

    }
    .e-descending-icon:before {
        content: "\e707";
    }
}
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Popup

Popup is another type of [overflowMode](#) in which the Toolbar container holds the commands that can be placed in the available space. The rest of the overflowing commands that do not fit within the viewing area moves to the overflow popup container.

The commands placed in the popup can be viewed by opening the popup using the drop down icon given at the end of the Toolbar.



If the popup content overflows the height of the page, then the rest of the commands will be hidden.

Priority of commands

Default popup priority is set as **none** and when the commands of Toolbar overflows, the ones that are listed at last in it will be moved into the popup.

User can customize the priority of commands to be displayed in the Toolbar and popup by using the [overflow](#) property.

Possible options:

Property	Description
Both	Button Text is visible in both Toolbar and Popup .
Overflow	Button Text is only visible in Popup .
Toolbar	Button Text is only visible in the Toolbar .

In below sample text only visible at popup container not in the Toolbar container.

INDEX.JSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
'@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
    return (<ToolbarComponent width="330" overflowMode="Popup">
        <ItemsDirective>
            <ItemDirective text="Cut" prefixIcon="e-cut-icon tb-icons"
showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Copy" prefixIcon="e-copy-icon tb-icons"
showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Paste" prefixIcon="e-paste-icon tb-icons"
showTextOn="Overflow" overflow="Show"/>
            <ItemDirective type="Separator"/>
            <ItemDirective text="Bold" prefixIcon="e-bold-icon tb-icons"
showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Underline" prefixIcon="e-underline-icon tb-
icons" showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Italic" prefixIcon="e-italic-icon tb-icons"
showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Color-Picker" prefixIcon="e-color-icon tb-
icons" showTextOn="Overflow" overflow="Hide"/>
            <ItemDirective type="Separator"/>
            <ItemDirective text="A-Z Sort" prefixIcon="e-ascending-icon tb-
icons" showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Z-A Sort" prefixIcon="e-descending-icon tb-
icons" showTextOn="Overflow" overflow="Show"/>
            <ItemDirective text="Clear" prefixIcon="e-clear-icon tb-icons"
showTextOn="Overflow" overflow="Hide"/>
        </ItemsDirective>
    </ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.TSX

```
import { ItemDirective, ItemsDirective, ToolbarComponent } from
'@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
    return (
        <ToolbarComponent width="330" overflowMode="Popup">
            <ItemsDirective>
                <ItemDirective text="Cut" prefixIcon="e-cut-icon tb-icons"
showTextOn="Overflow" overflow="Show" />
                <ItemDirective text="Copy" prefixIcon="e-copy-icon tb-icons"
showTextOn="Overflow" overflow="Show" />
                <ItemDirective text="Paste" prefixIcon="e-paste-icon tb-icons"
showTextOn="Overflow" overflow="Show" />
                <ItemDirective type="Separator" />
                <ItemDirective text="Bold" prefixIcon="e-bold-icon tb-icons"
showTextOn="Overflow" overflow="Show" />
            </ItemsDirective>
        </ToolbarComponent>
    );
}
```



```

        <ItemDirective text="Underline" prefixIcon="e-underline-icon tb-
icons" showTextOn="Overflow" overflow="Show" />
        <ItemDirective text="Italic" prefixIcon="e-italic-icon tb-icons"
showTextOn="Overflow" overflow="Show" />
        <ItemDirective text="Color-Picker" prefixIcon="e-color-icon tb-
icons" showTextOn="Overflow" overflow="Hide" />
        <ItemDirective type="Separator" />
        <ItemDirective text="A-Z Sort" prefixIcon="e-ascending-icon tb-
icons" showTextOn="Overflow" overflow="Show" />
        <ItemDirective text="Z-A Sort" prefixIcon="e-descending-icon tb-
icons" showTextOn="Overflow" overflow="Show" />
        <ItemDirective text="Clear" prefixIcon="e-clear-icon tb-icons"
showTextOn="Overflow" overflow="Hide" />
    </ItemsDirective>
</ToolbarComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Syncfusion React Toolbar Sample</title>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta name="description" content="Essential JS 2 for React Components"
/>
    <meta name="author" content="Syncfusion" />
    <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
    <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
    <script src="systemjs.config.js"></script>
    <style>
        #loader {
            color: #008cff;
            height: 40px;
            left: 45%;
            position: absolute;
            top: 45%;
            width: 30%;
        }
        .custom_bold .e-tbar-btn-text {
            font-weight: 900;
        }
        .custom_italic .e-tbar-btn-text {
            font-style: italic;
        }
        .custom_underline .e-tbar-btn-text {

```

```

        text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
        font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
        font-family: 'Material_toolbar';
        font-size: 16px;
        font-style: normal;
        font-weight: normal;
        font-variant: normal;
        text-transform: none;
    }
    @font-face {
        font-family: 'Material_toolbar';
        src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
19QAAAswAACNMaGVhZA6okZMAAADQAAAAANmhoZWEIUQQkAAAArAAAACRobXR4jAAAAAAAYAAAAAC
MbG9jYYc0kUIAAAKEAAAAAG1heHABOWG8AAABCAAAACBuYW1lx/RZbQAAJhgAAAKRCg9zdJZeEVU
AACisAAACGAABAAAEAAAAAFwEAAAAAAD9AABAAAAAAAAAAAAAAAAAAAAIwABAAAAAQAAQsu/F8
PPPUACwQAAAAAANXLJlEAAAAA1csmUQAAAAAD9AP0AAAACAACAAAAAAAAAAAAEAAAAjAbAADgAAAAA
AAgAAAAoACgAAP8AAAAAAAAAAQQAaZABQAAAokCzAAAAI8CiQLMAAAB6wAyAQgAAAIABQMAAAA
AAAAAAAAAAAAAAAAAAAAAUGZFZABA5wDnIQAAAAAXAQAAAAAAAAABAAAAAABAAAAAQAAAA
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AAAAEAAAABAAAAAQAAAAEAAAABAAAAAQAAAAEAAAABAAAAAQAAAAEAAAABAAAAAQAAAAEAAA
AAAQAAAAEAAAABAAAAAQAAAAAACAaaaaawaaABQAAwABAAAAFAAEAGQAAAAEAAQAA5yH//wA
A5wD//wAAAAEABAAAAEAAgADAAQABQAGAAcACAAJAAoACwAMAA0ADgAPABAAEQASABMAFAAVABY
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DFBYWFxIBAgMDAwQFBcwFBAQDBAICAgAJCRIQEBAODGwLCgkHBgQDAQEDBAYHCQoLDA4OEBAQEhI
SEhAQEA4ODAsKCQcGBAMBAQMEBgCJCgsMDg4QEBASAc6ECwNDjIBAQICA7QEBQQFBAMEUjIyVgM
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DBAQEBQQFsAMCAGeZDg0MC4QEAWQDAgICAgICAwQDAAAAAAMAAAAA/MD2AAyADUAAQAAJRUFDTs
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LCwcPEBAYEBAPHck3HRAQEBAQEAEIAQrThf7iBgCIBwgHCAGICAgHBwCH/skGBQQEAWIBAQIDBAQ
FBgE3BwcHBwgICAgHCAGHCACGAfEABQAAAAAD9APzAAMABwALAA8AEwAANYe1ITChNSEnITUhNyE
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```

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 HBwgJCQkJCvzaCgkJCQkIBwCGBgUEAwMBAZz0AgMDBAQFBQYHBwgICQkJCgsLCwsYGhsbDw4PDwo
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 PEA8PEA8ODw8ODg0ODQ0MAj8BBAMDBAQFBgCHBwkJCqoGBQQAQICBAMJEACHCAgJCh0dHRSaGRc
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 NDQwMC9QABgAAAAAD9AP0AAMADwATAB0AIQAnAAAlITUhIzMVixUzFSMVMzUjNyE1ISMzBxUzNSM
 3NSM3ITUhJzVMVzUjAQYC7v0S+n0/P328vPoC7v0S+nh4vHh4vPoC7v0S+j4/fWpeID4gPvrBXXw
 /P3w/u14gvPoAAAAABQAAAAAD9APbAAIABQANABcAgGAAJTcjAyM3ATM3MxczAyMFIQEVITUhATU
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 0A9QAawBDAECaAhwCLAMsAACUhNSEHFR8OPw49AS8ODw4TITUhBxUfDTsBPw09AS8ODw4TITUhBxU
 fDj8OPQEvDg8OAQYC7v0S+gIBAwMEBQUFBgcGCACICAgICACHBgYGBQQAQEBAMCAQECAwMEBAUGBgY
 HBwgICAgIBwgGBwYFBQUEAwMBAvoC7v0S+gIBAwMEBQUFBgcGCACICAgICACHBgYGBQQAQEBAMCAQE
 CAwMEBAUGBgYHBwgICAgIBwgGBwYFBQUEAwMBAvoC7v0S+gIBAwMEBQUFBgcGCACICAgICACHBgY
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 BAQICBAMFBQUGBwCHBwgICAgIBwCGBgYFBAQDAwIBAQEBAgMDBAQFBgYGBwCICAFgXS4ICAgHBwY
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```

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mdXNpb24gTWV0cm8gU3R1ZGlvd3d3LnN5bmNmdXNpb24uY29tACAAdABvAG8AbABiAGEAcgAtAG0
AYQB0AGUAcgBpAGEAbABSAGUAZwB1AGwAYQByAHQAbwBvAGwAYgBhAHIALQBtAGEAdABLAHIAaQB
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wMDELRG93bmXvYWRfMDAPVGv4dF9pbmRlbnRfMDAxEkNoYXJ0X0RvdWdobnV0XzAwMQlDbGVhc18
wMDINTnVtYmVyaW5nXzAwMQxTb3J0X0EtWl8wMDEKSXRhbG1jXzAwMQtCdWxsZXRzXzAwMQlQYXN
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OQWxpZ25fTGVMdF8wMDEITWVudV8wMDEHQ3V0XzAwMghCb2xkXzAwMRFBbGlnb19KdXN0aWZ5XzA
wMQpSZWxvYWRfMDAxClNlYXJjaF8wMDEKVXBsb2FkXzAwMQpEZXNpZ25fMDA1CkV4cG9ydf8wMDE
IQ29weV8wMDIAAA==) format('truetype');
    font-weight: normal;
    font-style: normal;
}

.e-bigger .e-tbar-btn .tb-icons {
    font-size: 18px;
}
.e-cut-icon:before {
    content: "\e719"
}
.e-copy-icon:before {
    content: "\e721"
}
.e-paste-icon:before {
    content: "\e712"
}
.e-color-icon:before {
    content: "\e703";
}

```

```

        .e-bold-icon:before {
            content: "\e71a"
        }
        .e-underline-icon:before {
            content: "\e706";
        }
        .e-clear-icon:before {
            content: "\e70d"
        }
        .e-italic-icon:before {
            content: "\e710"
        }
        .e-ascending-icon:before {
            content: "\e70f";
        }
        .e-descending-icon:before {
            content: "\e707";
        }
    </style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Template configuration in React Toolbar component

The Toolbar can be rendered by item based collection and by HTML elements. To render it based on the given HTML element, use `id` as the `target` property. To render the Toolbar, follow the below structure of the HTML elements:

```

\
<div id='template_toolbar'> --> Root Toolbar Element
<div> --> Toolbar Items Container
<div> --> Toolbar Item Element
</div>
</div>
</div>
\

```

Here, the template ID, `#template_toolbar` is directly appended to the Toolbar.

INDEX.JSX

```

import { ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
    return (<ToolbarComponent>
        <div id='template_toolbar'>

```

```

    <div> <button className="e-btn e-tbar-btn">Cut</button> </div>
    <div> <button className="e-btn e-tbar-btn">Copy</button> </div>
    <div> <button className="e-btn e-tbar-btn">Paste</button> </div>
    <div className="e-separator"/>
    <div> <button className="e-btn e-tbar-btn">Bold</button> </div>
    <div> <button className="e-btn e-tbar-btn">Italic</button> </div>
  </div>
</ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.TSX

```

import { ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (
    <ToolbarComponent>
      <div id='template_toolbar'>
        <div> <button className="e-btn e-tbar-btn">Cut</button> </div>
        <div> <button className="e-btn e-tbar-btn">Copy</button> </div>
        <div> <button className="e-btn e-tbar-btn">Paste</button> </div>
        <div className="e-separator" />
        <div> <button className="e-btn e-tbar-btn">Bold</button> </div>
        <div> <button className="e-btn e-tbar-btn">Italic</button> </div>
      </div>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components" />
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {

```

```

        color: #008cff;
        height: 40px;
        left: 45%;
        position: absolute;
        top: 45%;
        width: 30%;
    }
    .custom_bold .e-tbar-btn-text {
        font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
        font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
        text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
        font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
        font-family: 'Material_toolbar';
        font-size: 16px;
        font-style: normal;
        font-weight: normal;
        font-variant: normal;
        text-transform: none;
    }
    @font-face {
        font-family: 'Material_toolbar';
        src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
19QAAAswAACNMaGVhZA6okZMAAADQAAAAANmhoZWEIUQQkAAAArAAAACRobXR4jAAAAAAAAYAAAAAC
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AAAQAAAAEAAAABAAAAAQAAAAAACA AAAAwAAABQAAwABAAAAFAAEAGQAAAAEAAQAAQAA5yH//wA
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KCwsL/PYLCwsKCgkICAgGBgQEAWGz+qf6AYX89gsLCwoKCQgICAYGBAQDAQEBAQMEBAYGCAGICQo
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```


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```
font-weight: normal;
font-style: normal;
}

.e-bigger .e-tbar-btn .tb-icons {
```

```

        font-size: 18px;
    }
    .e-cut-icon:before {
        content: "\e719"
    }
    .e-copy-icon:before {
        content: "\e721"
    }
    .e-paste-icon:before {
        content: "\e712"
    }
    .e-color-icon:before {
        content: "\e703";
    }
    .e-bold-icon:before {
        content: "\e71a"
    }
    .e-underline-icon:before {
        content: "\e706";
    }
    .e-clear-icon:before {
        content: "\e70d"
    }
    .e-italic-icon:before {
        content: "\e710"
    }
    .e-ascending-icon:before {
        content: "\e70f";
    }
    .e-descending-icon:before {
        content: "\e707";
    }
}
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Stateless template

In React, a state is an object that contains data or information about the component. The component state can be used in React component templates to determine a component's behavior and render information to the user. The state can change based on user input, data from a server, the result of a calculation, or system-generated events.

Whenever the state changes, the component will automatically re-render to display the updated information to the user. This allows for a dynamic and interactive user experience.

For specific needs of the application, users don't want to re-render components during state updates. This can be achieved using the `statelessTemplates` property.

Toolbar template property are defined in `ItemDirective` tag of the toolbar component. So, you have to pass the `statelessTemplates` property array value as `directiveTemplates` to prevent the toolbar component from re-rendering while the state is being updated.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { useState } from 'react';
import {
  ItemDirective,
  ItemsDirective,
  MenuComponent,
  ToolbarComponent,
} from '@syncfusion/ej2-react-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { DropDownList } from '@syncfusion/ej2-dropdowns';
const COLORS = ['Red', 'Orange', 'Blue', 'Yellow', 'Brown', 'Black'];
const ELECTRONICS = [
  {
    text: 'Appliances',
    items: [
      {
        text: 'Kitchen',
        items: [
          { text: 'Electric Cookers' },
          { text: 'Coffee Makers' },
          { text: 'Blenders' },
        ],
      },
      {
        text: 'Washing Machine',
        items: [{ text: 'Fully Automatic' }, { text: 'Semi Automatic' }],
      },
      {
        text: 'Air Conditioners',
        items: [
          { text: 'Inverter ACs' },
          { text: 'Split ACs' },
          { text: 'Window ACs' },
        ],
      },
    ],
  },
];
const App = () => {
  const [counter, setCounter] = useState(0);
  const colorsDropdown = new DropDownList({
    dataSource: COLORS,
    width: 50,
    index: 2,
  });
  const electronicsMenu = () => {
    return (<MenuComponent items={ELECTRONICS}></MenuComponent>);
  }
  return (
    <div id='container'>
```

```

    <ButtonComponent onClick={() => setCounter(counter + 1)}>
      Counter {counter}
    </ButtonComponent>
    <ToolbarComponent statelessTemplates={['directiveTemplates']}>
      <ItemsDirective>
        <ItemDirective text="Cut" />
        <ItemDirective text="Copy" />
        <ItemDirective text="Paste" />
        <ItemDirective type="Separator" />
        <ItemDirective type="Input" template={colorsDropdown} />
        <ItemDirective template={electronicsMenu} />
      </ItemsDirective>
    </ToolbarComponent>
  </div>
);
};
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { useState } from 'react';
import {
  ItemDirective,
  ItemsDirective,
  MenuComponent,
  ToolbarComponent,
} from '@syncfusion/ej2-react-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { DropDownList } from '@syncfusion/ej2-dropdowns';
const COLORS = ['Red', 'Orange', 'Blue', 'Yellow', 'Brown', 'Black'];
const ELECTRONICS = [
  {
    text: 'Appliances',
    items: [
      {
        text: 'Kitchen',
        items: [
          { text: 'Electric Cookers' },
          { text: 'Coffee Makers' },
          { text: 'Blenders' },
        ],
      },
    ],
  },
  {
    text: 'Washing Machine',
    items: [{ text: 'Fully Automatic' }, { text: 'Semi Automatic' }],
  },
  {
    text: 'Air Conditioners',
    items: [
      { text: 'Inverter ACs' },
      { text: 'Split ACs' },
      { text: 'Window ACs' },
    ],
  },
]

```

```

    },
  ],
},
];
const App = () => {
  const [counter, setCounter] = useState(0);
  const colorsDropdown = new DropDownList({
    dataSource: COLORS,
    width: 50,
    index: 2,
  });
  const electronicsMenu = (): JSX.Element => {
    return (<MenuComponent items={ELECTRONICS}></MenuComponent>);
  }
  return (
    <div id='container'>
      <ButtonComponent onClick={() => setCounter(counter + 1)}>
        Counter {counter}
      </ButtonComponent>
      <ToolbarComponent statelessTemplates={['directiveTemplates']}>
        <ItemsDirective>
          <ItemDirective text="Cut" />
          <ItemDirective text="Copy" />
          <ItemDirective text="Paste" />
          <ItemDirective type="Separator" />
          <ItemDirective type="Input" template={colorsDropdown} />
          <ItemDirective template={electronicsMenu} />
        </ItemsDirective>
      </ToolbarComponent>
    </div>
  );
};
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Tab</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components" />
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/22.2.5/material.css"
rel="stylesheet" />
  <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet">
  <link href="index.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>

```

```

</head>
<body>
  <div id='container'>
    <div id='element'>
      <div id='loader'>Loading</div>
    </div>
  </div>
</body>
</html>

```

Popup customization

Popup is one of the supported responsive modes of the Toolbar. The Toolbar commands, popup mode priority and button text mode customizations are achieved in the item based rendering through property declaration. For more information on popup mode, refer [here](#)

The above behavior can also be achieved with template rendering by defining equivalent class names instead of property declaration.

Equivalent class names listed below are needed to add the Toolbar items' **div** element.

Priority

Class	Description
e-popup-text	Button Text is only visible in the Popup .
e-toolbar-text	Button Text is only visible on the Toolbar .

INDEX.JSX

```

import { ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (<ToolbarComponent width="300" overflowMode="Popup">
    <div>
      <div className="e-overflow-show e-popup-text"><button className="e-
      btn e-tbar-btn"><span className="e-cut-icon tb-icons e-icons e-btn-
      icon"/><div className="e-tbar-btn-text">Cut</div></button> </div>
      <div className="e-overflow-show e-popup-text"><button className="e-
      btn e-tbar-btn"><span className="e-copy-icon tb-icons e-icons e-btn-
      icon"/><div className="e-tbar-btn-text">Copy</div></button> </div>
      <div className="e-overflow-show e-popup-text"><button className="e-
      btn e-tbar-btn"><span className="e-paste-icon tb-icons e-icons e-btn-
      icon"/><div className="e-tbar-btn-text">Paste</div></button> </div>
      <div className="e-separator"/>
      <div className="e-overflow-show e-popup-text"><button className="e-
      btn e-tbar-btn"><span className="e-bold-icon tb-icons e-icons e-btn-
      icon"/><div className="e-tbar-btn-text">Bold</div></button> </div>
      <div className="e-overflow-hide e-popup-text"><button className="e-
      btn e-tbar-btn"><span className="e-underline-icon tb-icons e-icons e-btn-
      icon"/><div className="e-tbar-btn-text">Underline</div></button> </div>
      <div className="e-overflow-show e-popup-text"><button className="e-
      btn e-tbar-btn"><span className="e-italic-icon tb-icons e-icons e-btn-
      icon"/><div className="e-tbar-btn-text">Italic</div></button> </div>
    </div>
  </ToolbarComponent>)
}

```



```

    <div className="e-overflow-show e-popup-text"><button className="e-
    btn e-tbar-btn"><span className="e-ascending-icon tb-icons e-icons e-btn-
    icon"/><div className="e-tbar-btn-text">A-Z Sort</div></button> </div>
    <div className="e-overflow-show e-popup-text"><button className="e-
    btn e-tbar-btn"><span className="e-descending-icon tb-icons e-icons e-btn-
    icon"/><div className="e-tbar-btn-text">Z-A Sort</div></button> </div>
    </div>
  </ToolbarComponent>;
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.TSX

```

import { ToolbarComponent } from '@syncfusion/ej2-react-navigations';
import * as React from "react";
import * as ReactDOM from "react-dom";
const ReactApp = () => {
  return (
    <ToolbarComponent width="300" overflowMode="Popup">
      <div>
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-cut-icon tb-icons e-icons e-btn-icon"
        /><div className="e-tbar-btn-text">Cut</div></button> </div>
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-copy-icon tb-icons e-icons e-btn-icon"
        /><div className="e-tbar-btn-text">Copy</div></button> </div>
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-paste-icon tb-icons e-icons e-btn-icon"
        /><div className="e-tbar-btn-text">Paste</div></button> </div>
        <div className="e-separator" />
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-bold-icon tb-icons e-icons e-btn-icon"
        /><div className="e-tbar-btn-text">Bold</div></button> </div>
        <div className="e-overflow-hide e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-underline-icon tb-icons e-icons e-btn-
        icon" /><div className="e-tbar-btn-text">Underline</div></button> </div>
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-italic-icon tb-icons e-icons e-btn-icon"
        /><div className="e-tbar-btn-text">Italic</div></button> </div>
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-ascending-icon tb-icons e-icons e-btn-
        icon" /><div className="e-tbar-btn-text">A-Z Sort</div></button> </div>
        <div className="e-overflow-show e-popup-text"><button className="e-
        btn e-tbar-btn"><span className="e-descending-icon tb-icons e-icons e-btn-
        icon" /><div className="e-tbar-btn-text">Z-A Sort</div></button> </div>
      </div>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```
<!DOCTYPE html>
```

```

<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;
    }
    .custom_bold .e-tbar-btn-text {
      font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
      font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
      text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
      font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
      font-family: 'Material_toolbar';
      font-size: 16px;
      font-style: normal;
      font-weight: normal;
      font-variant: normal;
      text-transform: none;
    }
    @font-face {
      font-family: 'Material_toolbar';
      src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAoKIAAAwAgTlMvMjltShMAAAEoAAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
19QAAAswAACNMaGVhZA6okZMAAADQAAANmhoZWEIQUQkAAAArAAAACRobXR4jAAAAAAAYAAAC
MbG9jYYc0kUIAAAKEAAAAAG1heHABOwG8AAABCAAAACBuYW1lx/RZbQAAJhgAAAKRcG9zdJZeEVU
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AAgAAAAoACgAAAP8AAAAAAAAAAQQAABQAAAokCzAAAAI8CiQLMAAAB6wAyAQgAAAIABQMAAAA
AAAAAAAAAAAAAAAAAAAAAUGZFZABA5wDnIQQAAAAAXAQAAAAAAAAABAAAAAAAAABAAAAAQAAAA
EAAAABAAAAAQAAAAEAAAABAAAAAQAAAAEAAAABAAAAAQAAAAEAAAABAAAAAQAAAAEAAAABAAAAQ

```

```

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CAGIDBAQEBCwFBAQEAWICAhQXFRYVgAQFBQQAeWNoAgEBAGIDcAEBAQNvAgIBAQEBA2gDBAQFBAW
DFBYWFxIBAgMDAwQFBwFBAQDBAICAgAJCRIQEBAODgWLCgkHBgQDAQEDBAYHCQoLDA4OEBAQEhI
SEhAQEA4ODAsKCQcGBAMBAQMEBgcJCgsMDg4QEBASAc6ECwWNDjIBAQICA7QEBQQFBAMEUjIyVgM
EBAQFBAWwAwICATMODQwLhAQEBAMCAGECAGIDBAMEhASMDQ4yAQECAGOWBAQFBAUEAwRSDAwAMLY
DBAQEBQQFsAMCAGeZDg0MC4QEAWQDAgICAgICAWQDAAAAAAMAAAAA/MD2AAyADUAAQAAJRUFDTs
BPw41LwgPBwMhAScXAQ8GHQEfBQEfBjsBPwYBPwYvBwEDFgIDBAQGBGcICQkKCgsLCwsLCwoKCQg
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IBwgHCAGHBwYBOAUEAwMCAQEBAQIDAwQFBv4PlwsLCwoKCQkIBwYGBAQDAgIDBAQGBGcICQkKCgs
LCwcPEBAYEBAPHck3HRAQEBAQEAEIAQRThf7iBgCIBwgHCAGICAgHBwCH/skGBQQEAWIBAQIDBAQ
FBgE3BwCHBwgICAgHCAGHCACGAfEABQAAAAAD9APzAAMABwALAA8AEwAANYE1ITChNSEnITUhNyE
1ISchNSEMA+j8GN4CLP3U3gPo/BjeAiz91N4D6PwYDF6AW5xefVqAXgAAAAEAAAAAAP0A/QACQA
TABCAWwAAQcVMzcxMzUjLwEjFTMbATM1IwE1ESERBxEfDyE/DxEvDyEPDgFro8ObnnR0xOp0nZv
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EAWEBABQEDBAQGBGgICAKKCgsLCwMKCwsLCgoJCAGIBgYEBAMBAQEBAWQEBgYICAgJCgoLCwAAAA
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DAGEBAGMEBQUGBggICQkKCgsMDAwNDg4ODw8PEBAQERERAb7+RRQTEhIREA8NDQsKCAyFAwEBAwU
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QEBAQDw8PDw4ODg0NDQwMFxYTEhAHBgYGBXUHBwgJCQoLCwWNDQ0PDg8QEBERERITEhMUEXQVFBu
VFRgYfxcXfHvYVfHQUFBMTEhGwARI6CwsJCgGICAYGBGQEAWIBAQEBAGIDBAQFBQYHBwgICQkKFRY
YGHsODg8PDygUFBMTEhISERARDw8PDg0NDASLCgoICAgGBGQEAWMBAQECAGWQFBGcJCQoLDA0ODg+
6AAYAAAAA/MD9AA/AGsAQwDrAO8BMwAAARUFDTsBPw09AS8ODw4lHwk7AT8IPQEvByMnByMPByU
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MCwsKCgkIBwYFBQMCAGMFBQYHCAkKCgsLDA0MDQ0MCwsKCgkIBwYFBQMC/scBAQEYFBwgKCwYGBwY
GBgWKAcfAQEBAQUHCAoMBgYGBWYGCwoIBwUBAQHzAQECBAQEBAgYGCACICQkJCgoJCQgJBwgGBgY
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HCAkJCQkKAYYKQKJCQgHBwYGBQQEAgEBAQEBAQFBGyYHBwgJCQkJCvzaCgkJCQkIBwcGBgUEAwM
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JCQsLCwWMMQYGBGsKCQcEAgEBAGQHCQoLBgYGBWYGCwoJBgUCAQECBQYJCgsGBvMJCGkICAgHBwY
FBQDQAEBAQEDAwQFBQYHBwgICAKKCQoJCQkICACGBWUFBAMCAQEBAQIDBAUFBYHCAgJCQkGCws
KCgoJCAgHBgYEBAMBAQEBAWQEBgYHCAgJCgoKCwsLCwsKCQkJBwCHBQUDAwICAwMFBQCHBwkJCQo
LC9/81AMsA/zaCgkJCQkIBwcGBgUEBAIBAQEBAGQEBQUHBwcICQkJCQoDJgoJCQkJCAChBwUFBAG
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cAZzs/qAMfQIK/mQBnAFhAAYAAAAA/QD8wADAACwAPABIAfGAANYE1ISUhNSE1ITUhNSE1KQE
RNwMhNSEMA+j8GAG2AjL9zgIy/c4CMv30/kr6+gPo/BgMXn1efV19Xv4M+gGWXgAFAAAAAAPzA/M
AJQBpAKgArADwAAABFT8bIw8GBR8PNSMvDT8CJw8OHw8TBYPMPDBc/AzsBHwUzHwYzLxcjJREhEQc
RHw8hPw8RLw8hDw4CKg8QDw8ODg4NDQwMDAwKCwoKCQgJDw0KCQDAGLxBAUGBgGJC/7WDQ0NDg4
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```

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 KCQgIBwaUDAsLCgkIBwcGBgQQEAgIBAfEBAwMEBQYIBQcGBw8PEA8ODa0NDQ0ODg4ODw8PDw8PEA8
 PEA8PEA8ODw8ODg0ODQ0MAj8BBAMDBAQFBGcHBwkJCqoGBQQBAQICBAMJEAcHCAgJCh0dHRsaGRc
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 BAgMFBGcJCtMBoQsMDQ0NDg4ODg0ODQ0NDAuvBgUDAQEcbAY0I14BJEH+XAGRCwwMDQ0ODg4ODg4
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 fDj8OPQEvDg8OAQYC7v0S+gIBAwMEBQUFBGcGCACICAgICACHBgYGBQQEAWMCAQECAwMEBAUGBgY
 HBwgICAgIBwgGBwYFBQUEAwMBAvoC7v0S+gIBAwMEBQUFBGcGCACICAgICACHBgYGBQQEAWMCAQE
 CAwMEBAUGBgYHBwgICAgIBwgGBwYFBQUEAwMBAvoC7v0S+gIBAwMEBQUFBGcGCACICAgICACHBgY
 GBQQEAWMCAQECAwMEBAUGBgYHBwgICAgIBwgGBwYFBQUEAwMBAkpeLwgIBwCHBgYFBQUDBAICAQE
 BAQICBAMFBQUGBwCHBgICAgIBwcGBgYFBAQDAwIBAQEBAgMDBAQFBgYGBwICAFgXS4ICAgHBwY
 GBgUEBAMDAgEBAgMDBAQFBgYGBwICAgICACHBgYGBQUFAwQCAgEBAQECAgQDBQUFBGcHBwICAU
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 FBQYHBwCHCAAAAwAAAAADmQP0AAcAKACNAABFSE1MxEhESUHFQ8GLwC/Bx8GJysBDw0VERUfDTM
 hMz8NNRE1Lw0rAS8OKwEPDQEdAcZb/YQBbAEDBAYHBwkJCQkHBwYEAwEBAwQGBwJCQkJBwCGBAO
 svwkJCQgICAcGBgYEBAMCAgICAwQEBgYGBwgICAKJCQJ8CQkJCAGIBwYGBgQEAWICAgIDBAQGBgY
 HCAgICQkJvwmFBQYGBwgICQkJCgoKCwsLCwoKCgkJCQgIBwYGBQUdPoiI/SkClY4FBQgIBwUEAwE
 BAwQFBwgICgkICAcFBQIBAQIFBQcICCCQAgMEBAYGBGcICAgJCQn9KQkJCQgICAcGBgUFBAMCAgI
 CAwQFBQYGBwgICAKJCQLXCQkJCAGIBwYGBgQEAWICCGkJCAGIBwYGBQQEAWICAgIDBAQFBgYHCAg
 ICQkAAQAAAAAD9ALoAGAAAAExLw8PHxc/Gh8PBYERA0QREhMTFBQUFRYWFhCxfXgYFRUVFBUEXQ
 TEhMSEREREBApDg8NDQ0MCwsKCQkIBwd1BQYGBGcQEHMWFfwMDQ0NDg4ODw8PDxQEBAQEhESERE
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 OAAAAAP0A/MAAgAFAAgACwAQABQAFwAbAB4AIQApAC0AMQB1AAABETclFzUXNyMFNYETfQUhEQE
 hJRM1MycFMSEnBzcnBxcRBRMDBSUDEy0BEQMLIwUDEQC RHw8hPw8RLw8hDw4CGcj+ZaG3MJb+wM7
 +4jQBCv6EAy7+ggEKdP1S3JkBCwEjWemWlvrIATJ0dP7n/up3dwEWAZhy/vQ0/vZyXgEBAwQEBgY
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 HAAsAdwATABcAGwAfACMARwAAARUjNSMViZUjFSM1ARUjNSMViZUjFSM1JRUjNSMViZUjFSM1JxE
 fByE/BxEvByEPBgOW+j7bP9oDLPo+2z/aAyz6Pts/214BAwUGAwgJCgOJCgkJBwYDBAIBAwUGAwg
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 JBwQGBAIBAwUGCAKAAAAAAUAAAAA/QD8wADAACACwAPABMAADchNSE1ITUhiNSE1ITUhiNSE1ITU
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 1ITUhiNSE1IQwD6PwYA+j8GAPo/Bizb6Zwpm8AAAAABQAAAAAD9AP0AD8AXwCfAKQBIgAAJQ8PLw8
 /Dx8OExUPBSsBLwU9AT8FOWEfBQMPDy8PPw8fEAE1IwUVHw8zPwMXBy8FDw8fDz8PNS8DNwEzNQE
 /BS8PDw4BOAEBAwMEBQYGBwgICQkKCgoKCgoJCQgIBwYGBQQDAwEBAQEDAwQFBgYHCAgJCQoKCgo
 KCgkJCAGHBgYFBAMDAeICAgMDBQUFBQUFAwMCAgICAwMFBQUFBQUdAwIC4QEBAwMEBQYGBwgICQk
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 BAQEBAwMEBQYGBwgICQkKCgEiBQUFAwMCAgICAwMFBQUFBQUdAwICAgIDAwUFAScKCgoJCQgIBwY
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 eMpYKChQTEExERDw4NDAoIBwUDAQEEBgd2dgUEAwIDAQEDBQcICgwNDg8RERMTFBQUFBMTEREpdg0
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 KCAgIBgYFBQMDAQEBAQECaWQEBAUGDA8QEhQVFgwMDA0NDQ0N/nABogICAwQEBgYGBwgICQkKCQo
 KCQgJBwgGBgUFBAMCArsBdwICAwQEBgYGCACICQkKCQoKCQkIBwgGBgYEBAMCArv9MQEBAQIGCAo
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 fPx8fDzMvHw8eKwECAwQFBggICQoMDA0ODhAQERISExQUFRUWFhcXGBgYGBgXFxcWFhUVFBQTEhI
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 HBQUEAwMBAQEBAgQEBAyGBwgICgkLCwwMDQ0ODg8PDxAREBESERISEhIREhEQERAPDw8ODg0NDAw
 LCwkKCAgHBgYEBAQCAQECAwUICQsNDxASExUWFxgaExITERIREBAQDw8ODg0NDAsLCgoJCAcHBgY
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 SEQ4NBgUEBAQDAgEBAQEBAQIDBAQEByNDhESFBULCwwMDA0MDQ0ODQ0NDQwMDAwLCxUUEhEODQY
 FBQQDAwICAQECAgMDBAUFBg0OERIUFQsLDawMDA0NDQ0UEhMSEhIRERAQEA8ODg4NDAsLCwkJCAg
 GBgUEBAIBAQEBAgIEBAUFBgCHCAgJCgoSLf7jVgEfDg0NDQ4ODg8PDxAQEBERERITEhISEhIRERA
 QEA8ODg4NDAwLCgoICQCHBQUEBAICAIEBAUFBwcJCAoKCwwMDQ4ODg8QEBARERISEhITAAAAAgA
 AAAADtQP0AAMACgAANYe1IRMzESERMwFKA2z81A/zAWjz/1kmfQHN/p0BYwGeAAAAAAUAAAAA/Q
 D9AA/AH8AvwD/Aa8AAAEpDisBLw4/Dx8OBQ8OKwEvDj8PHw4lFQ8OLw49AT8OHw4FFQ8OLw49AT8
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 CAQEBAQIDAwQFBQYHBggHCAkJCAKIBwgHBgYFBQOEAgIB/Z4BAQIDAwQFBQYGBwgHCAkJCAKIBwg
 HBgYFBQQDAwIBAQEBAgMDBAUFBgYHCACICQgJCQgHCAcGBgUFBAMDAgEBvQECAWQEBAyGBgcHCAg
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 HBwkICAgJCQgICAcHBgYGBAQEAwIBAQIDBAQEByGBwCICAgJCQgICAcHBwUGBAwIDAwIB/kQBAgM
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 JCAkICQgIBwcGBgUFBACAgICAgIEBAUFBgYHBwgICQgJCAkHCAYHBgUFBAMDAgEBAQECaWMEBQU
 GBwYIBwkI1gkJCACIBgcGBQUEAwMCAQEBAQIDAwQFBQYHBggHCAkJCAKICACHBgYFBQOEAgIBAQE
 BAgIEBAUFBgYHBwgICQgJCQgHCAYHBgUFBAMDAgEBAQECaWMEBQUGBwYIBwgJCQgJCAgHBwYGBQU
 EBAICAQEBAQICBAQFBQYGBwCICAn+xhoZGRgZFxcXFhYVFBQTEhERDw8ODQwLCwkHBwYEAwIBAgI
 CBAQFBQYGBwCICakICAgIBwcGBgGBwYIBwgICQkIBwgGBwYFBQQDAwIBAQECAgMEBQUFBgcHCAg
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 ACwAkAY8gdG9vbGJhc1ltYXRlcmlhbFJlZ3VsYXJ0b29sYmFyLW1hdGVyaWZsdG9vbGJhc1ltYXR
 lcmlhbFZlcnNpb24gMS4wdG9vbGJhc1ltYXRlcmlhbEzvbncgZ2VuZXJhdGVkIHVzaW5nIFN5bmN
 mdXNpb24gTWV0cm8gU3R1ZGlvd3d3LnN5bmNmdXNpb24uY29tACAAdABvAG8AbABiAGEAcgAtAG0
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```

nAGwAdABvAG8AbABiAGEAcgAtAG0AYQB0AGUAcgBpAGEAbABWAGUAcgBzAGkAbwBuACAAMQAUADA
AdABvAG8AbABiAGEAcgAtAG0AYQB0AGUAcgBpAGEAbABWAGUAcgBzAGkAbwBuACAAMQAUADA
lAGQAIABlAHMAaQBAGcAIABTAHkAbgBjAGYAdQBzAGkAbwBuACAATQBlAHQAcgBvACAAUwB0AHU
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OQWxpZ25fTG9mdF8wMDEITWVudV8wMDEHQ3V0XzAwMghCb2xkXzAwMRFBbGlnb19KdXN0aWZ5XzA
wMQpSZWxvYWRfMDAxClNlYXJjaF8wMDEKvXBsb2FkXzAwMQpEZXNpZ25fMDA1CkV4cG9ydF8wMDE
IQ29weV8wMDIAAA==) format('truetype');
    font-weight: normal;
    font-style: normal;
}

.e-bigger .e-tbar-btn .tb-icons {
    font-size: 18px;
}

.e-cut-icon:before {
    content: "\e719"
}

.e-copy-icon:before {
    content: "\e721"
}

.e-paste-icon:before {
    content: "\e712"
}

.e-color-icon:before {
    content: "\e703";
}

.e-bold-icon:before {
    content: "\e71a"
}

.e-underline-icon:before {
    content: "\e706";
}

.e-clear-icon:before {
    content: "\e70d"
}

.e-italic-icon:before {
    content: "\e710"
}

.e-ascending-icon:before {
    content: "\e70f";
}

.e-descending-icon:before {
    content: "\e707";
}
}
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>

```

```
</body>
</html>
```

Integrate menu component

You can integrate menu component as toolbar item in Toolbar using [template](#) property. Menu can be populated with items as needed.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ToolbarComponent, MenuComponent, ItemsDirective, ItemDirective }
from '@syncfusion/ej2-react-navigations';
const data = [
  {
    text: 'Appliances',
    items: [
      {
        text: 'Kitchen',
        items: [
          { text: 'Electric Cookers' },
          { text: 'Coffee Makers' },
          { text: 'Blenders' },
        ],
      },
      {
        text: 'Washing Machine',
        items: [{ text: 'Fully Automatic' }, { text: 'Semi
Automatic' }],
      },
      {
        text: 'Air Conditioners',
        items: [
          { text: 'Inverter ACs' },
          { text: 'Split ACs' },
          { text: 'Window ACs' },
        ],
      },
    ],
  },
  {
    text: 'Accessories',
    items: [
      {
        text: 'Mobile',
        items: [
          { text: 'Headphones' },
          { text: 'Memory Cards' },
          { text: 'Power Banks' },
        ],
      },
      {
        text: 'Computer',
        items: [
          { text: 'Pendrives' },
          { text: 'External Hard Disks' },
        ],
      },
    ],
  },
]
```

```

        { text: 'Monitors' },
      ],
    },
  ],
},
{
  text: 'Fashion',
  items: [
    {
      text: 'Men',
      items: [
        { text: 'Shirts' },
        { text: 'Jackets' },
        { text: 'Track Suits' },
      ],
    },
    {
      text: 'Women',
      items: [{ text: 'Kurtas' }, { text: 'Salwars' }, { text:
'Sarees' }],
    },
  ],
},
{
  text: 'Home & Living',
  items: [
    {
      text: 'Furniture',
      items: [
        { text: 'Beds' },
        { text: 'Mattresses' },
        { text: 'Dining Tables' },
      ],
    },
    {
      text: 'Decor',
      items: [
        { text: 'Clocks' },
        { text: 'Wall Decals' },
        { text: 'Paintings' },
      ],
    },
  ],
},
],
};
const App = () => {
  const menuTemplate = () => {
    return (<MenuComponent items={data}></MenuComponent>);
  }
  return (<div id='container'>
    <ToolbarComponent id="toolbar">
      <ItemsDirective>
        <ItemDirective text="Cut"/>
        <ItemDirective text="Copy"/>
        <ItemDirective template={menuTemplate}/>
        <ItemDirective text="Paste"/>
      </ItemsDirective>
    </ToolbarComponent>
  </div>);
};

```



```
        </ToolbarComponent>
      </div>);
}
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ToolbarComponent, MenuComponent, ItemsDirective, ItemDirective }
from '@syncfusion/ej2-react-navigations';
const data = [
  {
    text: 'Appliances',
    items: [
      {
        text: 'Kitchen',
        items: [
          { text: 'Electric Cookers' },
          { text: 'Coffee Makers' },
          { text: 'Blenders' },
        ],
      },
      {
        text: 'Washing Machine',
        items: [{ text: 'Fully Automatic' }, { text: 'Semi Automatic' }],
      },
      {
        text: 'Air Conditioners',
        items: [
          { text: 'Inverter ACs' },
          { text: 'Split ACs' },
          { text: 'Window ACs' },
        ],
      },
    ],
  },
  {
    text: 'Accessories',
    items: [
      {
        text: 'Mobile',
        items: [
          { text: 'Headphones' },
          { text: 'Memory Cards' },
          { text: 'Power Banks' },
        ],
      },
      {
        text: 'Computer',
        items: [
          { text: 'Pendrives' },
          { text: 'External Hard Disks' },
          { text: 'Monitors' },
        ],
      },
    ],
  },
]
```

```

    },
  ],
},
{
  text: 'Fashion',
  items: [
    {
      text: 'Men',
      items: [
        { text: 'Shirts' },
        { text: 'Jackets' },
        { text: 'Track Suits' },
      ],
    },
    {
      text: 'Women',
      items: [{ text: 'Kurtas' }, { text: 'Salwars' }, { text: 'Sarees' }],
    },
  ],
},
{
  text: 'Home & Living',
  items: [
    {
      text: 'Furniture',
      items: [
        { text: 'Beds' },
        { text: 'Mattresses' },
        { text: 'Dining Tables' },
      ],
    },
    {
      text: 'Decor',
      items: [
        { text: 'Clocks' },
        { text: 'Wall Decals' },
        { text: 'Paintings' },
      ],
    },
  ],
},
];

const App = () => {
  const menuComponentTemplate = () => {
    return (<MenuComponent items={data}></MenuComponent>);
  }
  return (
    <div id='container'>
      <ToolbarComponent id="toolbar">
        <ItemsDirective>
          <ItemDirective text="Cut" />
          <ItemDirective text="Copy" />
          <ItemDirective template={menuComponentTemplate} />
          <ItemDirective text="Paste" />
        </ItemsDirective>
      </ToolbarComponent>
    </div>
  );
};

```

```

    </div>
  );
}
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Tab</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet">
  <link href="index.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
</head>
<body>
  <div id='container'>
    <div id='element'>
      <div id='loader'>Loading</div>
    </div>
  </div>
</body>
</html>

```

Accessibility in React Toolbar component

The Toolbar component has been designed, keeping in mind the [WAI-ARIA](#) specifications, and applying the WAI-ARIA roles, states, and properties along with keyboard support for people who use assistive devices. WAI-ARIA accessibility support is achieved through attributes like `aria-label`, and `aria-orientation`. It provides information about elements in a document for assistive technology. The component implements keyboard navigation support by following the [WAI-ARIA practices](#), and has been tested in major screen readers.

The accessibility compliance for the Toolbar component is outlined below.

| Accessibility Criteria | Compatibility |

| -- | -- |

| [WCAG 2.2](#) Support | |

```

| Section 508 Support |  |

| Screen Reader Support |  |

| Right-To-Left Support |  |

| Color Contrast |  |

| Mobile Device Support |  |

| Keyboard Navigation Support |  |

| Accessibility Checker Validation |  |

| Axe-core Accessibility Validation |  |

<style>

.post .post-content img {
display: inline-block;
margin: 0.5em 0;
}

</style>

<div> - All
features of the component meet the requirement.</div>

<div> - Some features of the component do not meet the requirement.</div>

<div> - The component does not meet the requirement.</div>

```

ARIA attributes

Toolbar component is designed by considering [WAI-ARIA](#) standard. Toolbar is supported with ARIA Accessibility which is accessible by on-screen readers, and other assistive technology devices. The following list of attributes are added in the Toolbar.

| Property | Functionalities |

```

| --- | --- |

| role="toolbar" | Attribute is set to the ToolBar element describes the actual role of the element. |

| aria-orientation | Attribute is set to the ToolBar element to indicates the ToolBar orientation. Default
value is horizontal. |

| aria-label | Attribute is set to ToolBar element describes the purpose of the set of toolbar. |

```

| aria-expanded | Attribute is set to the ToolBar Popup element to indicates the expanded state of the popup. |

| aria-haspopup | Attribute is set to the popup element to indicates the popup mode of the Toolbar. Default value is false. When popup mode is enabled, attribute value has to be changed to `true`. |

| aria-disabled | Attribute set to the ToolBar element to indicates the disabled state of the ToolBar. |

Keyboard interaction

Keyboard navigation is enabled by default. Possible keys are

Key	Description
Left	Focuses the previous element.
Right	Focuses the next element.
Enter	When focused on a ToolBar command, clicking the key triggers the click of Toolbar element. When popup drop-down icon is focused, the popup opens.
Esc(Escape)	Closes popup.
Down	Focuses the next popup element.
Up	Focuses the previous popup element.
Home	Moves focus to the first Toolbar.
End	Moves focus to the last Toolbar.
Tab	To Move focus through the interactive elements.
Shift + Tab	To Move focus through the interactive elements.

Ensuring accessibility

The Toolbar component's accessibility levels are ensured through an [accessibility-checker](#) and [axe-core](#) software tools during automated testing.

The accessibility compliance of the Toolbar component is shown in the following sample. Open the [sample](#) in a new window to evaluate the accessibility of the Toolbar component with accessibility tools.

See also

- [Accessibility in Syncfusion React components](#)

Style in React Toolbar component

The following content provides the exact CSS structure that can be used to modify the control's appearance based on user preference.

Customizing Toolbar

Use the following CSS to customize the Toolbar.

```
`css
.e-toolbar {
```

```
border: 5px solid rgb(173, 255, 47);  
}
```

,

Customizing the Toolbar items

Use the following CSS to customize the items of Toolbar.

```
`css  
.e-toolbar .e-toolbar-item {  
background: #add8e6;  
border: 1px solid #5a70cc;  
}
```

,

Use the following CSS to customize the button in the items of Toolbar.

```
`css  
.e-toolbar .e-tbar-btn {  
background: #add8e6;  
border: 1px solid #5a70cc;  
}
```

,

Customizing Toolbar's item icon

Use the following CSS to customize the item icon of Toolbar control.

```
`css  
.e-toolbar .e-tbar-btn .e-icons {  
background: #185655;  
color: #d7f9d4;  
}
```

,

Customizing the hover state of Toolbar control

Use the following CSS to customize the toolbar item when hovering.

```
`css  
.e-toolbar .e-tbar-btn:hover {  
background: #c0e3a1;  
border: 1px solid green;  
}
```

,

Customizing selected item of Toolbar control

Use the following CSS to customize the selected toolbar item.

```
`css
.e-toolbar .e-tbar-btn:focus {
background: #add8e6;
border: 1px solid #5a70cc;
}
`
```

How To

Set command customization in React Toolbar component

The [htmlAttributes](#) property of the Toolbar item is used to set the HTML attributes ('ID', 'class', 'style', 'role') for the commands.

When style attributes are added, if the same attributes were already present, they will be replaced. This is not so in the case of `class` attribute. Classes will be added to the element instead of replacing the existing ones.

Single or multiple CSS classes can be added to the Toolbar commands using the Toolbar item [cssClass](#) property.

INDEX.JSX

```
import * as React from "react";
import * as ReactDOM from "react-dom";
import { ToolbarComponent, ItemsDirective, ItemDirective } from
'@syncfusion/ej2-react-navigations';
const ReactApp = () => {
  let boldAttribute = {
    'class': 'custom_bold', 'id': 'itemId'
  };
  const italicAttribute = { 'class': 'custom_italic' };
  const underAttribute = { 'class': 'custom_underline' };
  return (<ToolbarComponent width="300">
    <ItemsDirective>
      <ItemDirective text="Bold" htmlAttributes={boldAttribute}/>
      <ItemDirective text="Italic" htmlAttributes={italicAttribute}/>
      <ItemDirective text="Underline" htmlAttributes={underAttribute}/>
      <ItemDirective type="Separator"/>
      <ItemDirective text="Uppercase" cssClass="e-txt-casing"/>
    </ItemsDirective>
  </ToolbarComponent>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.TSX

```
import * as React from "react";
import * as ReactDOM from "react-dom";
```

```
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
const ReactApp = () => {
  let boldAttribute: any = {
    'class': 'custom_bold', 'id': 'itemId'
  };
  const italicAttribute: any = { 'class': 'custom_italic' };
  const underAttribute: any = { 'class': 'custom_underline' };
  return (
    <ToolbarComponent width="300" >
      <ItemsDirective>
        <ItemDirective text="Bold" htmlAttributes={boldAttribute} />
        <ItemDirective text="Italic" htmlAttributes={italicAttribute} />
        <ItemDirective text="Underline" htmlAttributes={underAttribute} />
        <ItemDirective type="Separator" />
        <ItemDirective text="Uppercase" cssClass="e-txt-casing" />
      </ItemsDirective>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;
    }
    .custom_bold .e-tbar-btn-text {
      font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
```



```

        font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
        text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
        font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
        font-family: 'Material_toolbar';
        font-size: 16px;
        font-style: normal;
        font-weight: normal;
        font-variant: normal;
        text-transform: none;
    }
    @font-face {
        font-family: 'Material_toolbar';
        src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAAVmNtYXDoMOjqAAACDAAAAHhnbHlmIuy
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```

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 0A9QAABDAEAcAhwCLAMsAACUhNSEHFR8OPw49AS8ODw4TITUhBxUfDTsBPw09AS8ODw4TITUhBxU
 fDj8OPQEvDg8OAQYC7v0S+gIBAwMEBQUFBgcGCACICAgICAcHBgYGBQQAeAwMCAQECAwMEBAUGBgY
 HBwgICAgIBwgGBwYFBQUEAwMBAVoC7v0S+gIBAwMEBQUFBgcGCACICAgICAcHBgYGBQQAeAwMCAQE
 CAwMEBAUGBgYHBwgICAgIBwgGBwYFBQUEAwMBAVoC7v0S+gIBAwMEBQUFBgcGCACICAgICAcHBgY
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[illegible]

```

        .e-color-icon:before {
            content: "\e703";
        }
        .e-bold-icon:before {
            content: "\e71a"
        }
        .e-underline-icon:before {
            content: "\e706";
        }
        .e-clear-icon:before {
            content: "\e70d"
        }
        .e-italic-icon:before {
            content: "\e710"
        }
        .e-ascending-icon:before {
            content: "\e70f";
        }
        .e-descending-icon:before {
            content: "\e707";
        }
    }
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Set tool tip to the commands in React Toolbar component

The [tooltipText](#) property of the Toolbar item is used to set the HTML Tooltip to the commands that can be viewed as hint texts on mouse hover.

To change the [tooltipText](#) to ej2-tooltip component:

- Import the **Tooltip** module from **ej2-popups**, and initialize the Tooltip with the Toolbar target. Refer to the following code example:

INDEX.JSX

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { Tooltip } from '@syncfusion/ej2-popups';
import { ToolbarComponent, ItemsDirective, ItemDirective } from '@syncfusion/ej2-react-navigations';
const ReactApp = () => {
    React.useEffect(() => {
        let tooltip = new Tooltip({
            target: '#toolbar [title]',
        });
        tooltip.appendTo('#Tooltip');
    }, []);
    return (<div id="Tooltip">
        <ToolbarComponent width="300">

```

```

        <ItemsDirective>
          <ItemDirective text="Cut" tooltipText="Cut"/>
          <ItemDirective text="Copy" tooltipText="Copy"/>
          <ItemDirective text="Paste" tooltipText="Paste"/>
          <ItemDirective text="Undo" tooltipText="Undo"/>
          <ItemDirective text="Redo" tooltipText="Redo"/>
        </ItemsDirective>
      </ToolbarComponent></div>;
    }
    const root = ReactDOM.createRoot(document.getElementById('toolbar'));
    root.render(<ReactApp />);

```

INDEX.TSX

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { Tooltip } from '@syncfusion/ej2-popups';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
const ReactApp = () => {
  React.useEffect(() => {
    let tooltip: Tooltip = new Tooltip({
      target: '#toolbar [title]',
    });
    tooltip.appendTo('#Tooltip');
  }, []);
  return (
    <div id="Tooltip">
      <ToolbarComponent width="300">
        <ItemsDirective>
          <ItemDirective text="Cut" tooltipText="Cut" />
          <ItemDirective text="Copy" tooltipText="Copy" />
          <ItemDirective text="Paste" tooltipText="Paste" />
          <ItemDirective text="Undo" tooltipText="Undo" />
          <ItemDirective text="Redo" tooltipText="Redo" />
        </ItemsDirective>
      </ToolbarComponent></div>
    );
  }
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />

```

```
<link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
<script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
<script src="systemjs.config.js"></script>
<style>
#loader {
    color: #008cff;
    height: 40px;
    left: 45%;
    position: absolute;
    top: 45%;
    width: 30%;
}
.custom_bold .e-tbar-btn-text {
    font-weight: 900;
}
.custom_italic .e-tbar-btn-text {
    font-style: italic;
}
.custom_underline .e-tbar-btn-text {
    text-decoration: underline red;
}
.e-txt-casing .e-tbar-btn-text {
    font-variant: small-caps;
}
.e-tbar-btn .e-icons {
    font-family: 'Material_toolbar';
    font-size: 16px;
    font-style: normal;
    font-weight: normal;
    font-variant: normal;
    text-transform: none;
}
@font-face {
    font-family: 'Material_toolbar';
    src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAVmNtYXDoMojqAAACDAAAAHhnbHlmIuy
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```


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+4jQBCv6EAy7+ggEKdP1S3JkBCWEjWemWlvrIATJ0dP7n/up3dwEWAZhy/vQ0/vZyXgEBAWQEBgY
ICAgJCGoLCwsDCGsLCwOKCQgICAYGBAQDAQEBAQMEBAYGCAGICQOKCwSL/PYLcwsKCgkICAgGBgQ
EAWEBxv7fWSQ730Bky8v+9QNxAyH+f28BHx2ZmcukmTgJyWEeP/7n/ud3dwEZAR13Bv5xAR1ycv7
yAYAR/PYLcwsKCgkICAcHBQUEAwEBAQEDBAUFBwCICAKKCgSLCwMKCwSLCgoJCAGHBWUFBAMBAQE
BAWQEBgYIBwkJCGoLCwAAAAFAAAAAAP0A/MAAwAHAASADwATAAA3ITUhJSE1ISUhNSE1ITUhJSE
1IQwD6PwYAVgCkP1w/qgD6PwYAVgCkP1w/qgD6PwYDF6AW5xevlV19XgAAAAAKAAAAAAP0A/MAAwA
HAASADwATABAGwAFACMARwAAARUjNSMVIzUjFSM1ARUjNSMVIzUjFSM1JRUjNSMVIzUjFSM1JxEx
fByE/BxEvByEPBOW+j7bP9oDLPo+2z/aAyZ6Pts/21BawUGAwgJCgOJCgkJBwYDBAIBAwUGAwg
JCvx3CgkJBwYFAWE1vb27u7u7ARrb29vb29v6vLy8vLy8hvyCCwoJBWQGBAIBAwUHBWUJJCgOECwo
JBWQGBAIBAwUGCAKAAAAAAUAAAAA/QD8wADAACACwAPABMAADchNSE1ITUhNSE1ITUhNSE1ITU
hDAPo/BgCkP1wA+j8GAKQ/XAD6PwYDF6BV59efVqAXgAAAAADAAAAAAP0A0AAwAHAASAADchNSE
1ITUhNSE1IQwD6PwYA+j8GAPo/Bizb6Zwpm8AAAAABQAAAAAD9AP0AD8AXwCfAKQBIgAAJQ8PLw8
/Dx8OExUPBSsBLwU9AT8FOWefBQMPDy8PPw8fEAE1IwUVHw8zPwMXBy8FDw8fDz8PNS8DNwEzNQE
/BS8PDw4BOAEBAwMEBQYGBwgICQkKCgOKCgoJCQgIBWYGBQQAQWIBAQEBAQWQFBgYHCAGJCQOKCgo
KCgkJCAGHBgYFBAMDAEICAgMDBQUFBQUFAwMCAgICAwMFBQUFBQUdAwIC4QEBAWMEBQYGBwgICQk
KCgOKCgoJCQgIBWYGBQQAQWIBAQEBAQWQFBgYHCAGJCQOKCgoKCgkJCAGHBgYFBAMDAftkAV6W/K4
BAwUHCAoMDQ4PERETExQUcwsVFBn2dgkKCgoVfHQUEXmREQ8ODQwKCAcFAwEBAWUHCAoMDQ4PERE
TExQUFBQTEExERDw4NDAoIBWUDAQEEBgd2AV6W/ZYFBAMCAWBAWUHCAoMDQ4PERETExQUFBQTEExE
RDw4NDAoIBWUD1AoKCgkJCAGHBgYFBAMDAQEBAQMDBAUGBgCICAKJCGoKCgOKCQkICAcGBgUEAwM
BAQEBAWMEBQYGBwgICQkKCgEiBQUFAwMCAgICAwMFBQUFBQUdAwICAgIDAwUFAScKCgoJCQgIBWY
GBQQAQWIBAQEBAQWQFBgYHCAGJCQOKCgoKCgkJCAGHBgYFBAMDAQEBAQMDBAUGBgCICAKJCgqgZAF
eMpYKChQTEExERDw4NDAoIBWUDAQEEBgd2dgUEAwIDAQEDBQCICGwNDg8RERMTFBQUFBMTEREPDg0
MCgghBQMBAQMFBwGKDA0ODxERExMUFASLFRQTdv6iMgJqCQOKChUWFBQTEExERDw4NDAoIBWUDAQE
DBQCICGwNDg8RERMTFAADAAAAAANXA7UAIGBFAJMAAAEzHw4PDIsBNRMzHw4PDIsBNQMhPxEvDz8
PLxghAkGKCgkJCAGHBWYGBAQEAgEBAQEDAgYFBgYHBwgJCAKKEcDACgoJCQgIBwCHBgYEBAMCArV9MQEBAQIGCAo
MDg8REhQUFhCYGBERERAQEA4ODgWMDAoJCQcICQkKCgoLDAsMDAwMDQwNDQwNDQwMCwLcXQUERA
ODQoFAwQDAgEBAQAABQAAAAAD9APzAAMABwALAA8AEwAANYE1ITUhNSE1ITUhNSE1ITUhNSEMA+j
8GAPo/BgD6PwYA+j8GAPo/BgMXn1enF59XX1eAAAAAAEAAAAA9QD1ADUAAATHx8/DxcRIRcPDy8
fPx8fDz8MvHw8eKwEACwQFBggICQoMDA0ODhAQERISEXQUFRUWFhcxXGbgYGBgXfXcWfHUVFBQTEhI
REIr+ZrsMDA0ODg4PEBAQEBESERISEhIREhEQEQ8QDw8ODg0NDALCgoJCQgHBgYEBAQCAQEBAQI
EBAQGBGcICQkKCgSLCgoMDA0NDg4PDxAPERAREhESEhwcGxoAGBgWFRQSEQ8OCwp7BQYHCAGJCQoLCww

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```

0ZV8wMDEIUmb18wMDEPQ2hhcnRfcmFkYXJfMDAxD0FsaWduX1JpZ2h0XzAwMQ1UYWJsZV8wMDE
OQWxpZ25fTGVMdF8wMDEITWVudV8wMDEHQ3V0XzAwMghCb2xkXzAwMRFBbGlnb19KdXN0aWZ5XzA
wMQpSZWxvYWRfMDAxClNlYXJjaF8wMDEKVXBsb2FkXzAwMQpEZXNpZ25fMDA1CkV4cG9ydF8wMDE
IQ29weV8wMDIAAA==) format('truetype');
    font-weight: normal;
    font-style: normal;
}

.e-bigger .e-tbar-btn .tb-icons {
    font-size: 18px;
}
.e-cut-icon:before {
    content: "\e719"
}
.e-copy-icon:before {
    content: "\e721"
}
.e-paste-icon:before {
    content: "\e712"
}
.e-color-icon:before {
    content: "\e703";
}
.e-bold-icon:before {
    content: "\e71a"
}
.e-underline-icon:before {
    content: "\e706";
}
.e-clear-icon:before {
    content: "\e70d"
}
.e-italic-icon:before {
    content: "\e710"
}
.e-ascending-icon:before {
    content: "\e70f";
}
.e-descending-icon:before {
    content: "\e707";
}
}
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Set item wise custom template in React Toolbar component

The Toolbar supports adding template commands using the `template` property. Template property can be given as the `HTML element` that is either a `string` or a `query selector`.

As string

The HTML element tag can be given as a string for the template property. Here, the checkbox is rendered as a HTML template.

```
`ts
```

```
template: "<div><input type='checkbox' id='check1' checked=''>Accept</input></div>"
```

```
,
```

As selector

The template property also allows getting template content through query selector. Here, checkbox 'ID' attribute is specified in the template.

```
`ts
```

```
template: "#Template"
```

```
,
```

INDEX.JSX

```
import * as React from "react";
import * as ReactDOM from "react-dom";
import { ToolbarComponent, ItemsDirective, ItemDirective } from
"@syncfusion/ej2-react-navigations";
import { ButtonComponent } from "@syncfusion/ej2-react-buttons";
const buttonTemplate = () => {
  return (<div>
    <ButtonComponent content="Template"></ButtonComponent>
  </div>)
}
const ReactApp = () => {
  return (
    <ToolbarComponent >
      <ItemsDirective>
        <ItemDirective text="Cut" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Paste" />
        <ItemDirective type="Separator" />
        <ItemDirective template="<div><input type='checkbox' id='check1'
checked=''>Accept</input></div>" />
        <ItemDirective text="Undo" />
        <ItemDirective text="Redo" />
        <ItemDirective template={buttonTemplate} />
      </ItemsDirective>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.TSX

```
import * as React from "react";
import * as ReactDOM from "react-dom";
import { ToolbarComponent, ItemsDirective, ItemDirective } from
"@syncfusion/ej2-react-navigations";
```

```
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
const buttonTemplate = () => {
  return (<div>
    <ButtonComponent content="Template"></ButtonComponent>
  </div>)
}
const ReactApp = () => {
  return (
    <ToolbarComponent >
      <ItemsDirective>
        <ItemDirective text="Cut" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Paste" />
        <ItemDirective type="Separator" />
        <ItemDirective template="<div><input type='checkbox' id='check1'
checked=' ' >Accept</input></div>" />
        <ItemDirective text="Undo" />
        <ItemDirective text="Redo" />
        <ItemDirective template={buttonTemplate} />
      </ItemsDirective>
    </ToolbarComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components" />
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;
    }
    .custom_bold .e-tbar-btn-text {
```

```

        font-weight: 900;
    }
    .custom_italic .e-tbar-btn-text {
        font-style: italic;
    }
    .custom_underline .e-tbar-btn-text {
        text-decoration: underline red;
    }
    .e-txt-casing .e-tbar-btn-text {
        font-variant: small-caps;
    }
    .e-tbar-btn .e-icons {
        font-family: 'Material_toolbar';
        font-size: 16px;
        font-style: normal;
        font-weight: normal;
        font-variant: normal;
        text-transform: none;
    }
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Add toggle button in React Toolbar component

Toolbar supports to add a toggle Button by using the [template](#) property. Refer below steps

- By using Toolbar template property, pass required HTML String to render toggle button.

`ts

```
<ItemDirective template='<button class="e-btn" id="media_btn"></button>' />
```

,

- Now render the toggle Button into the targeted element in Toolbar [created](#) event handler and bind click event for it. On clicking the toggle Button, change the required icon and content based on current active state.

INDEX.JSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { useRef } from 'react';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
'@syncfusion/ej2-react-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
const ReactApp = () => {
    const zoomBtnRef = useRef<ButtonComponent>(null);
    const mediaBtnRef = useRef<ButtonComponent>(null);

```

```

const undoBtnRef = useRef<ButtonComponent>(null);
const filterBtnRef = useRef<ButtonComponent>(null);
const visibleBtnRef = useRef<ButtonComponent>(null);
const contentRef = useRef(null);
//Toggle button click event handlers
const zoomBtnClick = () => {
  if (zoomBtnRef.current) {
    zoomBtnRef.current.element.onclick = () => {
      if (zoomBtnRef.current.element.classList.contains('e-active')) {
        zoomBtnRef.current.iconCss = 'e-icons e-zoomout-icon';
      } else {
        zoomBtnRef.current.iconCss = 'e-icons e-zoomin-icon';
      }
    };
  }
}
const mediaBtnClick = () => {
  if (mediaBtnRef.current) {
    mediaBtnRef.current.element.onclick = () => {
      if (mediaBtnRef.current.element.classList.contains('e-active')) {
        mediaBtnRef.current.iconCss = 'e-icons e-pause-icon';
      } else {
        mediaBtnRef.current.iconCss = 'e-icons e-play-icon';
      }
    };
  }
}
const undoBtnClick = () => {
  if (undoBtnRef.current) {
    undoBtnRef.current.element.onclick = () => {
      if (undoBtnRef.current.element.classList.contains('e-active')) {
        undoBtnRef.current.iconCss = 'e-icons e-redo-icon';
      } else {
        undoBtnRef.current.iconCss = 'e-icons e-undo-icon';
      }
    };
  }
}
const filterBtnClick = () => {
  if (filterBtnRef.current) {
    filterBtnRef.current.element.onclick = () => {
      if (filterBtnRef.current.element.classList.contains('e-active')) {
        filterBtnRef.current.iconCss = 'e-icons e-filternone-icon';
      } else {
        filterBtnRef.current.iconCss = 'e-icons e-filter-icon';
      }
    };
  }
}
const visibleBtnClick = () => {
  if (visibleBtnRef.current) {
    visibleBtnRef.current.element.onclick = () => {
      if (visibleBtnRef.current.element.classList.contains('e-active')) {
        contentRef.current.style.display = 'none';
        visibleBtnRef.current.content = 'Show';
        visibleBtnRef.current.iconCss = 'e-icons e-show-icon';
      } else {

```

```

        contentRef.current.style.display = 'block';
        visibleBtnRef.current.content = 'Hide';
        visibleBtnRef.current.iconCss = 'e-icons e-hide-icon';
    }
    };
}
}
const zoomBtn = () => {
    return (<div>
        <ButtonComponent cssClass='e-flat' iconCss='e-icons e-zoomin-icon'
isToggle={true} ref={zoomBtnRef}></ButtonComponent>
        </div>);
}
const mediaBtn = () => {
    return (<div>
        <ButtonComponent cssClass='e-flat' iconCss='e-icons e-play-icon'
isToggle={true} ref={mediaBtnRef}></ButtonComponent>
        </div>);
}
const undoBtn = () => {
    return (<div>
        <ButtonComponent cssClass='e-flat' iconCss='e-icons e-undo-icon'
isToggle={true} ref={undoBtnRef}></ButtonComponent>
        </div>);
}
const filterBtn = () => {
    return (<div>
        <ButtonComponent cssClass='e-flat' iconCss='e-icons e-filter-icon'
isToggle={true} ref={filterBtnRef}></ButtonComponent>
        </div>);
}
const visibleBtn = () => {
    return (<div>
        <ButtonComponent cssClass='e-flat' iconCss='e-icons e-hide-icon'
isToggle={true} content='Hide' ref={visibleBtnRef}></ButtonComponent>
        </div>);
}
const divMargin = { margin: '25px 0' };
return (
    <div className='control-pane'>
        <div className='control-section tbar-control-section'>
            <div className='control toolbar-sample tbar-sample'
style={divMargin}>
                <ToolbarComponent id="ej2Toolbar">
                    <ItemsDirective>
                        <ItemDirective template={mediaBtn} click={mediaBtnClick} />
                        <ItemDirective type='Separator' />
                        <ItemDirective template={zoomBtn} click={zoomBtnClick} />
                        <ItemDirective type='Separator' />
                        <ItemDirective template={undoBtn} click={undoBtnClick} />
                        <ItemDirective type='Separator' />
                        <ItemDirective template={filterBtn} click={filterBtnClick} />
                        <ItemDirective type='Separator' />
                        <ItemDirective template={visibleBtn} click={visibleBtnClick}
                    />
                </ItemsDirective>
            </ToolbarComponent>
        </div>
    </div>
);

```



```

        <br></br>
        <div ref={contentRef}>
            This content will be hidden, when you click on hide button and
toggle
            get an active state as show, otherwise it will be visible.
        </div>
    </div>
</div>
</div>
);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { useRef } from 'react';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
'@syncfusion/ej2-react-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
const ReactApp = () => {
    const zoomBtnRef = useRef<ButtonComponent>(null);
    const mediaBtnRef = useRef<ButtonComponent>(null);
    const undoBtnRef = useRef<ButtonComponent>(null);
    const filterBtnRef = useRef<ButtonComponent>(null);
    const visibleBtnRef = useRef<ButtonComponent>(null);
    const contentRef = useRef(null);
    //Toggle button click event handlers
    const zoomBtnClick = () => {
        if (zoomBtnRef.current) {
            zoomBtnRef.current.element.onclick = () => {
                if (zoomBtnRef.current.element.classList.contains('e-active')) {
                    zoomBtnRef.current.iconCss = 'e-icons e-zoomout-icon';
                } else {
                    zoomBtnRef.current.iconCss = 'e-icons e-zoomin-icon';
                }
            };
        }
    }
    const mediaBtnClick = () => {
        if (mediaBtnRef.current) {
            mediaBtnRef.current.element.onclick = () => {
                if (mediaBtnRef.current.element.classList.contains('e-active')) {
                    mediaBtnRef.current.iconCss = 'e-icons e-pause-icon';
                } else {
                    mediaBtnRef.current.iconCss = 'e-icons e-play-icon';
                }
            };
        }
    }
    const undoBtnClick = () => {
        if (undoBtnRef.current) {
            undoBtnRef.current.element.onclick = () => {
                if (undoBtnRef.current.element.classList.contains('e-active')) {

```

```

        undoBtnRef.current.iconCss = 'e-icons e-redo-icon';
      } else {
        undoBtnRef.current.iconCss = 'e-icons e-undo-icon';
      }
    };
  }
}
}
const filterBtnClick = () => {
  if (filterBtnRef.current) {
    filterBtnRef.current.element.onclick = () => {
      if (filterBtnRef.current.element.classList.contains('e-active')) {
        filterBtnRef.current.iconCss = 'e-icons e-filternone-icon';
      } else {
        filterBtnRef.current.iconCss = 'e-icons e-filter-icon';
      }
    };
  }
}
const visibleBtnClick = () => {
  if (visibleBtnRef.current) {
    visibleBtnRef.current.element.onclick = () => {
      if (visibleBtnRef.current.element.classList.contains('e-active')) {
        contentRef.current.style.display = 'none';
        visibleBtnRef.current.content = 'Show';
        visibleBtnRef.current.iconCss = 'e-icons e-show-icon';
      } else {
        contentRef.current.style.display = 'block';
        visibleBtnRef.current.content = 'Hide';
        visibleBtnRef.current.iconCss = 'e-icons e-hide-icon';
      }
    };
  }
}
const zoomBtn = () => {
  return (<div>
    <ButtonComponent cssClass='e-flat' iconCss='e-icons e-zoomin-icon'
isToggle={true} ref={zoomBtnRef}></ButtonComponent>
    </div>);
}
const mediaBtn = () => {
  return (<div>
    <ButtonComponent cssClass='e-flat' iconCss='e-icons e-play-icon'
isToggle={true} ref={mediaBtnRef}></ButtonComponent>
    </div>);
}
const undoBtn = () => {
  return (<div>
    <ButtonComponent cssClass='e-flat' iconCss='e-icons e-undo-icon'
isToggle={true} ref={undoBtnRef}></ButtonComponent>
    </div>);
}
const filterBtn = () => {
  return (<div>
    <ButtonComponent cssClass='e-flat' iconCss='e-icons e-filter-icon'
isToggle={true} ref={filterBtnRef}></ButtonComponent>
    </div>);
}

```

```

const visibleBtn = () => {
  return (<div>
    <ButtonComponent cssClass='e-flat' iconCss='e-icons e-hide-icon'
isToggle={true} content='Hide' ref={visibleBtnRef}></ButtonComponent>
    </div>);
}
const divMargin = { margin: '25px 0' };
return (
  <div className='control-pane'>
    <div className='control-section tbar-control-section'>
      <div className='control toolbar-sample tbar-sample'
style={divMargin}>
        <ToolbarComponent id="ej2Toolbar">
          <ItemsDirective>
            <ItemDirective template={mediaBtn} click={mediaBtnClick} />
            <ItemDirective type='Separator' />
            <ItemDirective template={zoomBtn} click={zoomBtnClick} />
            <ItemDirective type='Separator' />
            <ItemDirective template={undoBtn} click={undoBtnClick} />
            <ItemDirective type='Separator' />
            <ItemDirective template={filterBtn} click={filterBtnClick} />
            <ItemDirective type='Separator' />
            <ItemDirective template={visibleBtn} click={visibleBtnClick}
/>
          </ItemsDirective>
        </ToolbarComponent>
        <br></br>
        <div ref={contentRef}>
          This content will be hidden, when you click on hide button and
toggle
          get an active state as show, otherwise it will be visible.
        </div>
      </div>
    </div>
  </div>
);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="index.css" rel="stylesheet" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />

```

```

    <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet" />
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
    <script src="systemjs.config.js"></script>
</head>
<body>
    <div id="container">
        <div id="toolbar" class="toggle">
            <div id="loader">LOADING....</div>
        </div>
        <br />
    </div>
</body>
</html>

```

How to customize toolbar scroll step in React Toolbar component

Toolbar supports to customize the scrolling distance when you click the left and right side navigation icons. we can customize **ScrollStep** property for scrolling distance. Refer to the following code example.

By using Toolbar scrollStep property, pass a required value to customize toolbar scrollStep.

INDEX.JSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
const ReactApp = () => {
    const divMargin = { margin: '25px 0' };
    return (<div className='control-pane'>
        <div className='control-section tbar-control-section'>
            <div className='control toolbar-sample tbar-sample'
style={divMargin}>
                <ToolbarComponent id="ej2Toolbar" width="600px" scrollStep={50}>
                    <ItemsDirective>
                        <ItemDirective prefixIcon='e-cut-icon tb-icons'
tooltipText='Cut' />
                        <ItemDirective prefixIcon='e-copy-icon tb-icons'
tooltipText='Copy' />
                        <ItemDirective prefixIcon='e-paste-icon tb-icons'
tooltipText='Paste' />
                        <ItemDirective type='Separator' />
                        <ItemDirective prefixIcon='e-bold-icon tb-icons'
tooltipText='Bold' />
                        <ItemDirective prefixIcon='e-underline-icon tb-icons'
tooltipText='Underline' />
                        <ItemDirective prefixIcon='e-italic-icon tb-icons'
tooltipText='Italic' />
                        <ItemDirective prefixIcon='e-color-icon tb-icons'
tooltipText='Color-Picker' />
                        <ItemDirective type='Separator' />
                        <ItemDirective prefixIcon='e-alignleft-icon tb-icons'
tooltipText='Align Left' />
                    </ItemsDirective>
                </ToolbarComponent>
            </div>
        </div>
    </div>);
}

```

```

        <ItemDirective prefixIcon='e-alignright-icon tb-icons'
tooltipText='Align_Right' />
        <ItemDirective prefixIcon='e-aligncenter-icon tb-icons'
tooltipText='Align_Center' />
        <ItemDirective prefixIcon='e-alignjustify-icon tb-icons'
tooltipText='Align_Justify' />
        <ItemDirective type='Separator' />
        <ItemDirective prefixIcon='e-bullets-icon tb-icons'
tooltipText='Bullets' />
        <ItemDirective prefixIcon='e-numbering-icon tb-icons'
tooltipText='Numbering' />
        <ItemDirective type='Separator' />
        <ItemDirective prefixIcon='e-bullets-icon tb-icons'
tooltipText='Bullets' />
        <ItemDirective prefixIcon='e-numbering-icon tb-icons'
tooltipText='Numbering' />
        <ItemDirective type='Separator' />
        <ItemDirective prefixIcon='e-ascending-icon tb-icons'
tooltipText='Sort A - Z' />
        <ItemDirective prefixIcon='e-descending-icon tb-icons'
tooltipText='Sort Z - A' />
        <ItemDirective type='Separator' />
        <ItemDirective prefixIcon='e-indent-icon tb-icons'
tooltipText='Text Indent' />
        <ItemDirective prefixIcon='e-outdent-icon tb-icons'
tooltipText='Text Outdent' />
        <ItemDirective type='Separator' />
        <ItemDirective prefixIcon='e-clear-icon tb-icons'
tooltipText='Clear' />
        <ItemDirective prefixIcon='e-reload-icon tb-icons'
tooltipText='Reload' />
        <ItemDirective prefixIcon='e-export-icon tb-icons'
tooltipText='Export' />
    </ItemsDirective>
  </ToolbarComponent>
</div>
</div>
</div>);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);

```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
'@syncfusion/ej2-react-navigations';
const ReactApp = () => {
  const divMargin = { margin: '25px 0' };
  return (
    <div className='control-pane'>
      <div className='control-section tbar-control-section'>
        <div className='control toolbar-sample tbar-sample'
style={divMargin}>
          <ToolbarComponent id="ej2Toolbar" width="600px" scrollStep={50}>

```

```

        <ItemsDirective>
            <ItemDirective prefixIcon='e-cut-icon tb-icons'
tooltipText='Cut' />
            <ItemDirective prefixIcon='e-copy-icon tb-icons'
tooltipText='Copy' />
            <ItemDirective prefixIcon='e-paste-icon tb-icons'
tooltipText='Paste' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-bold-icon tb-icons'
tooltipText='Bold' />
            <ItemDirective prefixIcon='e-underline-icon tb-icons'
tooltipText='Underline' />
            <ItemDirective prefixIcon='e-italic-icon tb-icons'
tooltipText='Italic' />
            <ItemDirective prefixIcon='e-color-icon tb-icons'
tooltipText='Color-Picker' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-alignleft-icon tb-icons'
tooltipText='Align_Left' />
            <ItemDirective prefixIcon='e-alignright-icon tb-icons'
tooltipText='Align_Right' />
            <ItemDirective prefixIcon='e-aligncenter-icon tb-icons'
tooltipText='Align_Center' />
            <ItemDirective prefixIcon='e-alignjustify-icon tb-icons'
tooltipText='Align_Justify' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-bullets-icon tb-icons'
tooltipText='Bullets' />
            <ItemDirective prefixIcon='e-numbering-icon tb-icons'
tooltipText='Numbering' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-bullets-icon tb-icons'
tooltipText='Bullets' />
            <ItemDirective prefixIcon='e-numbering-icon tb-icons'
tooltipText='Numbering' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-ascending-icon tb-icons'
tooltipText='Sort A - Z' />
            <ItemDirective prefixIcon='e-descending-icon tb-icons'
tooltipText='Sort Z - A' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-indent-icon tb-icons'
tooltipText='Text Indent' />
            <ItemDirective prefixIcon='e-outdent-icon tb-icons'
tooltipText='Text Outdent' />
            <ItemDirective type='Separator' />
            <ItemDirective prefixIcon='e-clear-icon tb-icons'
tooltipText='Clear' />
            <ItemDirective prefixIcon='e-reload-icon tb-icons'
tooltipText='Reload' />
            <ItemDirective prefixIcon='e-export-icon tb-icons'
tooltipText='Export' />
        </ItemsDirective>
    </ToolbarComponent>
</div>
</div>
</div>

```

```
);
}
const root = ReactDOM.createRoot(document.getElementById('toolbar'));
root.render(<ReactApp />);
```

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://ej2.syncfusion.com/angular/demos/src/toolbar/toolbar.component
.css" rel="stylesheet" />
  <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #container {
      visibility: hidden;
    }
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;
    }
    .e-tbar-btn .e-icons{
      font-family: 'Material_toolbar';
      font-size: 16px;
      font-style: normal;
      font-weight: normal;
      font-variant: normal;
      text-transform: none;
    }
    #container {
      visibility: hidden;
    }
    #loader {
      color: #008cff;
      height: 40px;
      left: 45%;
      position: absolute;
```

```

top: 45%;
width: 30%;
}
@font-face {
font-family: 'Material_toolbar';
src: url(data:application/x-font-ttf;charset=utf-
8;base64,AAEAAAAKAIAAAwAgTlMvMjltShMAAAEoAAAAVmntYXDoMojqAAACDAAAAHhnbHlmIuy
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```


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 GBQQDAwEBAQEDAwQFBgYHCAgJCQoKCgoKCgkJCAGHBgYFBAMDAQEBAQMDBAUGBgICAKJCgqgZAF
 eMpYKChQTEExERDw4NDAoIBwUDAQEEBgD2dgUEAwIDAQEDBQcICGwNDg8RERMTFBQUFBMTEREpdg0
 MCgghBQMBAMFBWgKDA0ODxERExMUFAsLFRQTdv6iMgJqCQoKChUWFBQTEExERDw4NDAoIBwUDAE
 DBQcICGwNDg8RERMTFAADAAAAANXA7UAIgBFAJMAAAEzHw4PDIsBNRMzHw4PDIsBNQMhPxEvDz8
 PLxghAkGKCgkJCAGHBwYGBAQEAQEBAQEDAwQFBgYHBwgJCAkKCeDACgoJCQgIBwcGBgQEBAIBAQE
 BAgQEBAyGBwICAKJCgrAwAHDDQwMDBcWFRMSEQ8NDAoHBgQBAQIDBAYHBwKKGsNDA4ODwsLCgo
 KCAGIBgYFBQMDAQEBAQECAwQEBAUGDA8QEHQVFGwMDA0NDQ0N/nABogICAwQEBgYGBwgICQkKCQo
 KCQgJBwgGBgUFBAMCARSbdwICAwQEBgYGCACICQkKCQoKCQkIBwgGBgYEBAMCARv9MQEBAQIGCAo
 MDg8REhQUFhcYGBERERAQE4ODgWMDAoJCQcICQkKCgoLDASMDAwMDQwNDQwMCMwLcXQUERA
 ODQoFAwQDAgEBAQAABQAAAAAD9APzAAMABwALAA8AEwAANYE1ITUhNSE1ITUhNSE1ITUhNSEMA+j
 8GAPo/BgD6PwYA+j8GAPo/BgMXn1enF59XX1eAAAAAEAAAAA9QD1ADUAAATHx8/DxcRIRcPDy8
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 REIr+ZrsMDA0ODg4PEBAQEBSERISEhIREhEQEQ8QDw8ODg0NDAwLCgoJCQgHBgYEBACQAQEBAQI
 EBAQGBgICQkKCgsMDA0NDg4PDxAPERAREhESEhwcGxoaGBgWFRQSEQ8OCwp7BQYHCAgJCQoLCww
 NDQ4ODg8QEBERERISEhMTFBMUFRQYGBgXfXyWFRUUFMBSEhEQEA4ODQwMCMGkICAYFBAMCAgAYGBc
 XfXyWFRUUFMBSEhEQEA4ODQ0LCgoICAYFBAMCAQECAwQFBggICgoLDQ0ODhCKAZq7DASLCgkJCAC
 HBQUEAwMBAQEBAgQEBAyGBwgICGkLCwwMDQ0ODg8PDxAREBESERISEhIREhEQERAPDw8ODg0NDAw
 LCwkKCAgHBgYEBACQAQECAwUICQsNDxASEXUWFxgaEXITERIREBAQDw8ODg0NDASLCgoJCAcHBgY
 EBAMCAQEBAgMEBQYICAOKCw0NDg4QEBESEhMUFBUVfHYXfXcYAAAAAgAAAAAD8gP0AGcA7gAAARU
 PGC8YPQE/FzsBHxcFHx8/DxcVATcBIyc/Dj0BLx0rAQ8dAoABAgIDAwQFBQUndXATExYLCwwMDAw
 NDQ0NDQ0NDQwNDASMCxUUEhAPDQUFBQQAwmBAQEBAwMDBAUFBQ0PEBIUFQsMCMwNDA0NDQ0NDQ0
 NDASMDASLfhMTEA8NBQUFBAMDAgIB/Y0BAQMDBAUGBgICQkLCwsNDA4ODg8QEBARERISEhMTExE
 REBEQEBAQDw8ODg4ODA0OAR1W/uMuDgoKCQkIBwYGBgQEAWMCAQICAwQFBgCHCAKKGsMDA0NDg8
 PDxARERERehMSEhMTExMSEhIRERAQE8ODg4MDQsLCwkJCAgGBgUEAwMBAoIODQ0MDQwMDASLFRQ
 SEQ4NBgUEBAQDAgEBAQEBAQIDBAQEByNDhESFBULCwwMDA0MDQ0ODQ0NDQwMDAwLCxUUEhEODQY
 FBQQDAwICAQECAgMDBAUFBg0OERIUFQsLDASMDA0NDQ0UEhMSEhIRERAQE8ODg4NDASLCwkJCAg
 GBgUEBAIBAQEBAgIEBAUFBgCHCAgJCgoSLf7jVgEfDg0NDQ4ODg8PDxQEBERERITEhISEhIRERA
 QE8ODg4NDAwLCgoICQcHBQUEBAICAgIEBAUFBwCJCAoKCwwMDQ4ODg8QEBARERISEhITAAAAAgA
 AAAADtQP0AAMACgAANYE1IRMzESERMwFKA2z81A/zAWjz/1kMfQHN/p0BYwGeAAAAAAUAAAAA/Q
 D9AA/AH8AvwD/Aa8AAEPDisBLw4/Dx8OBQ8OKwEvDj8PHw41FQ8OLw49AT8OHw4FFQ8OLw49AT8
 OHw4BHx8zPw09AS8MPQE/DjsBPx01Lx8PHgOFAQECAgQEBQUGBgCHCAgJCAkJCAcIBgcGBQUEAwM
 CAQEBAQIDAwQFBQYHBggHCAkJCAkIBwgHBgYFBQQAeAgIB/Z4BAQIDAwQFBQYGBwgHCAkJCAkIBwg
 HBgYFBQQDAwIBAQEBAgMDBAUFBgYHCAcICQgJCQgHCAcGBgUFBAMDAgEBVQECAwQEBAyGBgCHCAg
 ICQkICAgHBwCfBgQFAwMCAQECAwMFBAYFBwCHCAgICQkICAgHBwYGBgQEBAWMAf7qAQIDAwUEBgU
 HBwCICAgJCQgICAcHBgYGBAQEAwIBAQIDBAQEByGBwCICAgJCQgICAcHBwUGBAUDAwIB/kQBAgM
 EBgcHCQsLDA0ODw8RERITFBQVfHYXfXcZGBkZGgkICAgHBwYGBgQEBAWMAf7qAQIDAwUEBgU
 CAgIEBAUFBgYHBwgICAlkDg8NDg0ODA0MDAwLCwsKCQoICQcIBgYGBQQEAwMCAQECAwQGBwCJCws
 MDQ4PDxEREhMUFBUWFhcXfXkYGRkaGhkZGBkXfXcWFhUUFBMSEREPDw4NDASLCQcHBgQDAgJTCak
 ICACHBgYFBQQAeAgICAgICBAQFBQYGBwCICAKICQgJBwgGBwYFBQQDAwIBAQEBAgMDBAUFBgCGCac
 JCAkICQgIBwcGBgUFAQAQAgICAgIEBAUFBgYHBwgICQgJCAkHCAyHBgUFBAMDAgEBAQECAwMEBQU
 GBwYIBwK1lgkJCAcIBgcGBQUEAwMCAQEBAQIDAwQFBQYHBggHCAkJCAkICAcHBgYFBQQAeAgIBAQE
 BAgIEBAUFBgYHBwgICQgJCQgHCAyHBgUFBAMDAgEBAQECAwMEBQUGBwYIBwgJCQgJCAgHBwYGBQU
 EBAICAQEBAQICBAQFBQYGBwCICAn+xhoZGRgZFxcXfHYVFBQTEhERDw8ODQwLCwkHBwYEAwIBAgI
 CBAQFBQYGBwCICAKICAgIBwcGBgSGBwYIBwgICQkIBwgGBwYFBQQDAwIBAQECAgMEBQUFBgCHCAg
 JCQoKCwoMCMwNDA0NDg0ODg4XfXyWFRUUFVFBQTEhIRERAPDw4NDQsLCgkIBwYFBAMBAQECAwQGBwC
 JCwsMDQ4PDxEREhMUFBUWFhcXfXkYGRkaAgAAAAAD9A01AAgAVAAAAARchFSEHFzcnJREVHw4hPw4
 9ASMVIREhFTM9AS8OIQ8OAtV1/k0BsHI/4OD8+AICAwQFBQYHBwCICQkJCQHPCQkJCQgHBwCGBQU

```

EAWICXP4xAc9cAgIDBAUFBgCHBwgJCQkJ/jEJCQkJCAcHBwYFBQQDAgICoHRYdD7e3oD9RAkJCAg
IBwcGBgUEBAMCAQEBAQIDBAQFBgYHBwgICAKJzMwCvMzMCQkICAgHBwYGBQQEAWIBAQEBAgMEBAU
GBgcHCAGICQADAAAAAAAOvA/QAAwBHAF0AAAERIREHERUfDTMhMz8OES8OIyEjDw0nETMRITUhIw8
NA1X+DFsCAGMEBQUGBgCICAgJCQkB9AkJCQgICAcGBgUFBAMCAQEBAQIDBAUFBgYHCAGICQkJ/gw
JCQkICAgHBgYFBQQDAgK2WQIT/e0JCQkIBwgHBgYFBAQDAgEC4/2EAnwF/YgJCQgJCAcHBgYGBAQ
DAgICAgMEBAYGBgcHCAkICQkCeAkJCQgICAcGBgUFAwMDAQEDAwMFBQYGBwgICAKJsv2EAnxbAgI
DBAUFBgYHCAGICQkAAAAASAN4AAQAAAAAAAAABAAAAQAAAAAAQAAEAAQAAAAAAAgAHABEAAQA
AAAAAAwAQABgAAQAAAAAABAAQACgAAQAAAAAABQALADgAAQAAAAAABgAQAEAAQAAAAAACgAsAFM
AAQAAAAACwASAH8AAwABBAkAAAAACAJEAwABBAkAAQAgAJMAAwABBAkAAgAOALMAAwABBAkAAwA
gAMEAAwABBAkABAAGAOEAwABBAkABQAWAQEAwABBAkABgAgARCAAwABBAkACgBYATCAAwABBAk
ACwAkAY8gdG9vbGJhciltYXRlcmlhbFJlZ3VsYXJ0b29sYmFyLW1hdGVyaWFsdG9vbGJhciltYXR
lcmlhbFZlcmlhbnB24gMS4wdG9vbGJhciltYXRlcmlhbEZvbnQgZ2VuZXJhdGVkIHVzaW5nIFN5bmN
mdXNpb24gTWV0cm8gU3RlZGlvd3d3LnN5bmNmdXNpb24uY29tACAAdABvAG8AbABiAGEAcgAtAG0
AYQB0AGUAcgBpAGEAbABSAGUAZwB1AGwAYQBYAHQAbwBvAGwAYgBhAHIALQBtAGEAdABlAHIAaQB
hAGwAdABvAG8AbABiAGEAcgAtAG0AYQB0AGUAcgBpAGEAbABWAGUAcgBzAGkAbwBuACAAMQAuADA
AdABvAG8AbABiAGEAcgAtAG0AYQB0AGUAcgBpAGEAbABGAG8AbgB0ACAAZwB1AG4AZQByAGEAdAB
lAGQAIABlAHMAaQBwAGcAIABTAHkAbgBjAGYAdQBzAGkAbwBuACAATQBlAHQAcgBvACAAUwB0AHU
AZABpAG8AdwB3AHcALgBzAHkAbgBjAGYAdQBzAGkAbwBuAC4AYwBvAG0AAAAAAGAAAAAAAKAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
TARQBFQEWARcBGAEZARoBGwEcAR0BHGEfASABIQEiASMBJAAQVGv4dF9PdXRxZW50XzAwMQtQaWN
0dXJlXzAwMQxtZXR0aW5nc18wMDEQQ29sb3JfcGlja2VyXzAwMhBBbGlnb19DZW50ZXJfMDA2CEX
pbmVfMDAxDVVuZGVybGluZV8wMDEMU29ydF9aLUFfMDAxCFVuZG9fMDAxEENoYXJ0X2JlYmJsZV8
wMDELRG93bmXvYWRfMDAPVGv4dF9pbmRlbnRfMDAxEkNoYXJ0X0RvdWdobnV0XzAwMQ1DbGVhc18
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0ZV8wMDEIUuVkb18wMDEPQ2hhcnRfcmFkYXJfMDAxD0FsaWduX1JpZ2h0XzAwMQlUYWJsZV8wMDE
OQWxpZ25fTGVMdF8wMDEITWVudV8wMDEHQ3V0XzAwMghCb2xkXzAwMRFBbGlnb19KdXN0aWZ5XzA
wMQpSZWxvYWRfMDAxClNlYXJjaF8wMDEKVXBsb2FkXzAwMQpEZXNpZ25fMDA1CkV4cG9ydF8wMDE
IQ29weV8wMDIAAA==) format('truetype');
        font-weight: normal;
        font-style: normal;
    }
    .e-cut-icon:before {
        content: "\e719"
    }
    .e-copy-icon:before {
        content: "\e721"
    }
    .e-paste-icon:before {
        content: "\e712"
    }
    .e-color-icon:before {
        content: "\e703";
    }
    .e-bold-icon:before {
        content: "\e71a"
    }
    .e-underline-icon:before {
        content: "\e706";
    }
    .e-alignleft-icon:before {
        content: "\e717"
    }
    .e-alignright-icon:before {
        content: "\e715"
    }
    .e-aligncenter-icon:before {
        content: "\e704"
    }

```

```

    }
    .e-alignjustify-icon:before {
        content: "\e71b"
    }
    .e-upload-icon:before {
        content: "\e71e"
    }
    .e-download-icon:before {
        content: "\e70a"
    }
    .e-indent-icon:before {
        content: "\e70b"
    }
    .e-outdent-icon:before {
        content: "\e700"
    }
    .e-clear-icon:before {
        content: "\e70d"
    }
    .e-reload-icon:before {
        content: "\e71c"
    }
    .e-export-icon:before {
        content: "\e720";
    }
    .e-italic-icon:before {
        content: "\e710"
    }
    .e-bullets-icon:before {
        content: "\e711";
    }
    .e-numbering-icon:before {
        content: "\e70e";
    }
    .e-ascending-icon:before {
        content: "\e70f";
    }
    .e-descending-icon:before {
        content: "\e707";
    }
    .e-bubble-icon:before {
        content: "\e709"
    }
    .e-line-icon:before {
        content: "\e705"
    }
}
</style>
</head>
<body>
    <div id='toolbar'>
        <div id='loader'>Loading....</div>
    </div>
    <br />
</body>
</html>

```

Add link to toolbar item in React Toolbar component

You can add link inside Toolbar using React **template**. Follow the below guidelines for add link as template in Toolbar.

- Declare a template within the function which returns jsx element. If the template does not need any arguments, then no need to pass the properties.
- Assign the function as value for the **template** option of toolbar item.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
const App = () => {
  const AnchorTemplate = () => {
    return (
      <div>
        <a target="_blank"
href="https://ej2.syncfusion.com/react/documentation/toolbar/getting-
started/">
          Anchor Toolbar Link
        </a>
      </div>
    );
  }
  return (
    <div id="container">
      <ToolbarComponent id="ej2Toolbar">
        <ItemsDirective>
          <ItemDirective text="Cut"/>
          <ItemDirective text="Copy"/>
          <ItemDirective type="Separator"/>
          <ItemDirective text="Paste"/>
          <ItemDirective type="Separator"/>
          <ItemDirective template={AnchorTemplate}/>
        </ItemsDirective>
      </ToolbarComponent>
    </div>
  );
}
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
const App = () => {
  const AnchorTemplate = (): JSX.Element => {
    return (
      <div>
        <a
          target="_blank"
href="https://ej2.syncfusion.com/react/documentation/toolbar/getting-
started/"
```

```

        >
        Anchor Toolbar Link
      </a>
    </div>
  );
}
return (
  <div id='container'>
    <ToolbarComponent id="ej2Toolbar">
      <ItemsDirective>
        <ItemDirective text="Cut" />
        <ItemDirective text="Copy" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Paste" />
        <ItemDirective type="Separator" />
        <ItemDirective template={AnchorTemplate} />
      </ItemsDirective>
    </ToolbarComponent>
  </div>
);
}
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Toolbar Sample</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components" />
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
  <style>
    #container {
      max-width: 700px;
      min-width: 520px;
    }
    #loader {
      color: #008c8f;
      height: 40px;
      left: 45%;
      position: absolute;
      top: 45%;
      width: 30%;
    }
  </style>
</head>

```

```
<body>
  <div id='container'>
    <div id='element'>
      <div id='loader'>Loading</div>
    </div>
  </div>
</body>
</html>
```

Render other components in toolbar using template in React Toolbar component

You can render other components inside Toolbar using React **template**. Through this, we can add content as other components directly with all functionalities to our Toolbar. Follow the below guidelines for using the other components as template in Toolbar.

- Declare a template within the function returns jsx element. If the template does not need arguments no need to pass the properties.
- Assign the function as value for the template property.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { DatePickerComponent } from '@syncfusion/ej2-react-calendars';
const App = () => {
  const buttonComponent = () => {
    return (<ButtonComponent>Click me</ButtonComponent>);
  }
  const datePickerTemplate = () => {
    return (<DatePickerComponent></DatePickerComponent>);
  }
  return (<div id='container'>
    <ToolbarComponent id="toolbar">
      <ItemsDirective>
        <ItemDirective template={buttonComponent} />
        <ItemDirective template={datePickerTemplate} />
        <ItemDirective text="Cut" />
        <ItemDirective text="Copy" />
        <ItemDirective text="Paste" />
        <ItemDirective type="Separator" />
        <ItemDirective text="Bold" />
        <ItemDirective text="Italic" />
        <ItemDirective text="Underline" />
      </ItemsDirective>
    </ToolbarComponent>
  </div>);
}
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ToolbarComponent, ItemsDirective, ItemDirective } from
 '@syncfusion/ej2-react-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { DatePickerComponent } from '@syncfusion/ej2-react-calendars';
const App = () => {
  const buttonTemplate = (): JSX.Element => {
    return (<ButtonComponent>Click me</ButtonComponent>);
  }
  const datePickerTemplate = (): JSX.Element => {
    return (<DatePickerComponent></DatePickerComponent>);
  }
  return (
    <div id='container'>
      <ToolbarComponent id="toolbar">
        <ItemsDirective>
          <ItemDirective template={buttonTemplate} />
          <ItemDirective template={datePickerTemplate} />
          <ItemDirective text="Cut" />
          <ItemDirective text="Copy" />
          <ItemDirective text="Paste" />
          <ItemDirective type="Separator" />
          <ItemDirective text="Bold" />
          <ItemDirective text="Italic" />
          <ItemDirective text="Underline" />
        </ItemsDirective>
      </ToolbarComponent>
    </div>
  );
}
const root = ReactDOM.createRoot(document.getElementById('element'));
root.render(<App />);
```

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Syncfusion React Tab</title>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="description" content="Essential JS 2 for React Components"
/>
  <meta name="author" content="Syncfusion" />
  <link href="https://cdn.syncfusion.com/ej2/20.3.56/material.css"
rel="stylesheet" />
  <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet">
  <link href="index.css" rel="stylesheet" />
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
  <script src="systemjs.config.js"></script>
</head>
```



```

<body>
  <div id='container'>
    <div id='element'>
      <div id='loader'>Loading</div>
    </div>
  </div>
</body>
</html>

```

Ej1 api migration in React Toolbar component

This article describes the API migration process of Toolbar component from Essential JS 1 to Essential JS 2.

Accessibility and Localization

<!-- markdownlint-disable MD033 -->

| Behavior | Property in Essential JS 1 | Property in Essential JS 2 |

| ----- | ----- | ----- |

| Localization | **Not Applicable** | **Property** : locale
 <ToolbarComponent id='toolbar' locale='fr-BE'></ToolbarComponent> |

| Right to left | **Property**: enableRTL
 <EJ.Toolbar id="toolbar" enableRTL={true}></EJ.Toolbar> | **Property**: enableRTL
 <ToolbarComponent id='toolbar' enableRTL={true}></ToolbarComponent> |

DataSource

<!-- markdownlint-disable MD033 -->

| Behavior | Property in Essential JS 1 | Property in Essential JS 2 |

| ----- | ----- | ----- |

| DataSource | **Property** : dataSource
 <EJ.Toolbar id="toolbar" dataSource={this.items}></EJ.Toolbar> | **Not Applicable** |

| Query | **Property** : query
 <EJ.Toolbar id="toolbar" query={this.query}></EJ.Toolbar> | **Not Applicable** |

| Fields | **Property**: fields
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar> | **Not Applicable** |

| Group | **Property** : group
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

constructor(props: {}) {
 this.fields = { group: " " }; } | **Not Applicable** |

| HtmlAttributes | **Property** : htmlAttributes
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

constructor(props: {}) {
 this.fields = { htmlAttributes: { } }; } | **Not Applicable** |

| Id | **Property** : id
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

constructor(props: {}) {
 this.fields = { id: " " }; } | **Not Applicable** |

|ImageAttributes | **Property:** imageAttributes
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

 constructor(props: {}) {
 this.fields = { imageAttributes: { } };}| Not Applicable |

|ImageUrl | **Property:** imageUrl
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

 constructor(props: {}) {
 this.fields = { imageUrl: " " };}| Not Applicable |

|SpriteCssClass | **Property:** spriteCssClass
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

 constructor(props: {}) {
 this.fields = { spriteCssClass: " " };}| Not Applicable |

|Text | **Property:** text
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

 constructor(props: {}) {
 this.fields = { text: " " };}| Not Applicable |

|TooltipText | **Property:** tooltipText
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

 constructor(props: {}) {
 this.fields = { tooltipText: " " };}| Not Applicable |

|Template | **Property:** template
 <EJ.Toolbar id="toolbar" fields={this.fields}></EJ.Toolbar>

 constructor(props: {}) {
 this.fields = { template: " " };}| Not Applicable |

Items

<!-- markdownlint-disable MD033 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

|Default | <**Property** : items
 <EJ.Toolbar id="toolbar" items={this.items}> </EJ.Toolbar> |
Property : items
 <ToolbarComponent id="toolbar" items={this.items}>
 </ToolbarComponent> |

|Align | Not Applicable | **Property** : items[0].Align
 <ToolbarComponent id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {
 this.items = { align: 'center'};}|

|Custom class | Not Applicable | **Property** : items[0].cssClass
 <ToolbarComponent id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {
 this.items = { cssClass: 'e-class'}; }|

|Group Name| **Property** : items[0].group
 <EJ.Toolbar id="toolbar" items={this.items}></EJ.Toolbar>

 constructor(props: {}) {
 this.items = { group: " " };}| Not Applicable |

|HtmlAttributes | **Property** : items[0].htmlAttributes
 <EJ.Toolbar id="toolbar" items={this.items}> </EJ.Toolbar> </EJ.Toolbar>

 constructor(props: {}) {
 this.items = { htmlAttributes: { } };}| **Property** : items[0].htmlAttributes
 <ToolbarComponent id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {
 this.items = { htmlAttributes: { } };}|

| Id | **Property** : items[0].id
 <EJ.Toolbar id="toolbar" items={this.items}> </EJ.Toolbar>

 constructor(props: {}) {
 this.items = { id: " "; } | **Property** : items[0].id

 <ToolbarComponent id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {
 this.items = { id: " "; } |

| ImageAttributes | **Property** : items[0].imageAttributes
 <EJ.Toolbar id="toolbar"
 items={this.items}> </EJ.Toolbar>

 constructor(props: {}) {
 this.items = {
 imageAttributes: { } }; } | Not Applicable|

| ImageUrl | **Property** : items[0].imageUrl
 <EJ.Toolbar id="toolbar" items={this.items}>
 </EJ.Toolbar>

 constructor(props: {}) {
 this.items = { imageUrl: " "; } | Not
 Applicable|

| Overflow | Not Applicable | **Property** : items[0].overflow
 <ToolbarComponent
 id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {

 this.items = { overflow: 'popup' }; } |

| PrefixIcon | Not Applicable | **Property** : items[0].prefixIcon
 <ToolbarComponent
 id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {

 this.items = { prefixIcon: 'e-icon' }; } |

| ShowAlwaysInPopup | Not Applicable | **Property** : items[0].showAlwaysInPopup

 <ToolbarComponent id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {
 this.items = { showAlwaysInPopup: true }; } |

| ShowTextOn | Not Applicable | **Property** : items[0].showTextOn
 <ToolbarComponent
 id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {

 this.items = { showTextOn: 'popup' }; } |

| Sprite CssClass | **Property** : items[0].showTextOn
 <EJ.Toolbar id="toolbar"
 items={this.items}> </EJ.Toolbar>

 constructor(props: {}) {
 this.items = {
 spriteCssClass: 'e-class' }; } | Not Applicable |

| SuffixIcon | Not Applicable | **Property** : items[0].suffixIcon
 <ToolbarComponent
 id="toolbar" items={this.items}> </ToolbarComponent>

 constructor(props: {}) {

 this.items = { suffixIcon: 'e-icon' }; } |

| Template | **Property** : items[0].template
 <EJ.Toolbar id="toolbar" items={this.items}>
 </EJ.Toolbar>

 constructor(props: {}) {
 this.items = { template: " "; } | **Property** :
 items[0].template
 <ToolbarComponent id="toolbar" items={this.items}>
 </ToolbarComponent>

 constructor(props: {}) {
 this.items = { template: " "; } |

| Text | **Property** : items[0].text
 <EJ.Toolbar id="toolbar" items={this.items}>
 </EJ.Toolbar>

 constructor(props: {}) {
 this.items = { text: 'Cut' }; } | **Property** :
 items[0].text
 <ToolbarComponent id="toolbar" items={this.items}>
 </ToolbarComponent>

 constructor(props: {}) {
 this.items = { text: 'Copy' }; } |

| TooltipText | **Property** : items[0].tooltipText
 <EJ.Toolbar id="toolbar" items={this.items}>
 </EJ.Toolbar>

 constructor(props: {}) {
 this.items = { tooltipText: 'Cut' }; } | **Property** :
 items[0].tooltipText
 <ToolbarComponent id="toolbar" items={this.items}>
 </ToolbarComponent>

 constructor(props: {}) {
 this.items = { tooltipText: 'Copy' }; } |

|Type | **Not Applicable** | **Property** : items[0].type **
** **<ToolbarComponent id="toolbar" items={this.items}>** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.items = {type: 'Button'}; } |

|Width | **Not Applicable** | **Property** : items[0].width **
** **<ToolbarComponent id="toolbar" items={this.items}>** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.items = {width: '50'}; } |

|Disable Items |**Property** : disabledItemIndices **
** **<EJ.Toolbar id="toolbar" disabledItemIndices="" >** **</EJ.Toolbar>** | **Method** : enableItems(items, false) **
** **<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}} >** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.ToolbarObj.enableItems([], false); } |

|Add Items |**Not Applicable** | **Method** : addItem(items, index) **
** **<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}} >** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.ToolbarObj.addItem([], 0); } |

|Remove Item |**Method** : removeItem(element) **
** **<EJ.Toolbar id="toolbar" >** **</EJ.Toolbar>****
** **
** var obj=\$('#toolbar').ejToolbar('instance')**
** obj.removeItem(ele); | **Method** : removeItems(args) **
** **<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}} >** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.ToolbarObj.removeItems(0); } |

|RemoveItemById |**Method** : select(index)**
** **<EJ.Toolbar id="toolbar" >** **</EJ.Toolbar>****
** **
** var obj=\$('#toolbar').ejToolbar('instance')**
** obj.select(1); | **Not Applicable** |

|Enable item | **Method** : enableItem(element)**
** **<EJ.Toolbar id="toolbar" >** **</EJ.Toolbar>****
** **
** var obj=\$('#toolbar').ejToolbar('instance')**
** obj.enableItem(ele); | **Method** : enableItems(items, true)**
** **<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}} >** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.ToolbarObj.enableItems(items, true); } |

|EnableItemById |**Method** : enableItemById(id)**
** **<EJ.Toolbar id="toolbar" >** **</EJ.Toolbar>****
** **
** var obj=\$('#toolbar').ejToolbar('instance')**
** obj.enableItemById('left'); | **Not Applicable** |

|Disable Item | **Method** : disableItem(element)**
** **<EJ.Toolbar id="toolbar" >** **</EJ.Toolbar>****
** **
** var obj=\$('#toolbar').ejToolbar('instance')**
** obj.disableItem(ele); | **Method** : enableItems(items, true)**
** **<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}} >** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.ToolbarObj.enableItems([], false); } |

|DisableItemById |**Method** : disableItemById(id)**
** **<EJ.Toolbar id="toolbar" >** **</EJ.Toolbar>****
** **
** var obj=\$('#toolbar').ejToolbar('instance')**
** obj.disableItemById('left'); | **Not Applicable** |

|Show item | **Not Applicable** | **Method** : hideItem(index, false)**
** **<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}} >** **</ToolbarComponent>****
** **
** constructor(props: {}) {**
** this.ToolbarObj.hideItem(0, false); } |

| Hide item | **Method** : `hideItem(index, true)` `<ToolbarComponent id="toolbar" ref = {(scope) => {this.ToolbarObj = scope}}r> </ToolbarComponent>` `constructor(props: {}) {
this.ToolbarObj.hideItem(0, true); }`

| Select item | **Method** : `selectItem(element)` `<EJ.Toolbar id="toolbar" > </EJ.Toolbar>` `var obj=$('#toolbar').ejToolbar('instance')
obj.selectItem(ele);` | **Not Applicable** |

| SelectItemById | **Method** : `selectItemById(id)` `<EJ.Toolbar id="toolbar" > </EJ.Toolbar>` `var obj=$('#toolbar').ejToolbar('instance')
obj.selectItemById('left');` | **Not Applicable** |

| DeselectItemById | **Method** : `deselectItemById(id)` `<EJ.Toolbar id="toolbar" > </EJ.Toolbar>` `var obj=$('#toolbar').ejToolbar('instance')
obj.deselectItemById('left');` | **Not Applicable** |

| Clicked | **Not Applicable** | **Event**: `clicked` `<ToolbarComponent id="toolbar" clicked={onclicked.bind(this)}></ToolbarComponent>` `onclicked(event){ }` |

| itemHover | **Event**: `itemHover` `<EJ.Toolbar id='toolbar' itemHover={this.onitemHover}></EJ.Toolbar>` `onitemHover(event){ }` | **Not Applicable** |

| itemLeave | **Event**: `itemLeave` `<EJ.Toolbar id='toolbar' itemLeave={this.onitemLeave}></EJ.Toolbar>` `onitemHover(event){ }` | **Not Applicable** |

Common

`<!-- markdownlint-disable MD033 -->`

| Behavior | Property in Essential JS 1 | Property in Essential JS 2 |

| ----- | ----- | ----- |

| Custom class | **Property** : `cssClass` `<EJ.Toolbar id="toolbar" cssClass="customClass" > </EJ.Toolbar>` | **Not Applicable** |

| Enabled | **Property** : `enabled` `<EJ.Toolbar id="toolbar" enabled={false}> </EJ.Toolbar>` | **Not Applicable** |

| EnableSeparator | **Property** : `enableSeparator` `<EJ.Toolbar id="Accordion" enableSeparator={false} > </EJ.Toolbar>` | **Not Applicable** |

| Height | **Property** : `height` `<EJ.Toolbar id="toolbar" height="100%" > </EJ.Toolbar>` | **Property** : `height` `<ToolbarComponent id="toolbar" height="100%" > </ToolbarComponent>` |

| HtmlAttributes | **Property** : `htmlAttributes` `<EJ.Toolbar id="Accordion" htmlAttributes={this.attributes} > </EJ.Toolbar>` `constructor(props: {}) {
this.attributes = {class: "my-class" };}` | **Not Applicable** |

| Hide | **Property** : `hide()` `<EJ.Toolbar id="Accordion" hide={true}> </EJ.Toolbar>` | **Not Applicable** |

| Orientation | **Property** : `orientation` `<EJ.Toolbar id="Accordion" orientation="horizontal" > </EJ.Toolbar>` | **Not Applicable** |

| OverflowModes | **Property** : responsiveType
 <EJ.Toolbar id="Accordion" responsiveType="popup" > </EJ.Toolbar> | **Property** : overflowMode
 <ToolbarComponents id="Accordion" overflowMode="popup" > </ToolbarComponent> |

| Persistence | Not Applicable | **Property** : enablePersistence
 <ToolbarComponent id="toolbar" enablePersistence={false} > </ToolbarComponent> |

| Responsive | **Property** : isResponsive
 <EJ.Toolbar id="Accordion" isResponsive={true} > </EJ.Toolbar> | Not Applicable |

| ShowRoundedCorner | **Property** : showRoundedCorner
 <EJ.Toolbar id="toolbar" showRoundedCorner={true} > </EJ.Toolbar> | Not Applicable |

| Width | **Property** : width
 <EJ.Toolbar id="Accordion" width="600" > </EJ.Toolbar> | **Property** : width
 <ToolbarComponent id="Accordion" width="600" > </ToolbarComponent> |

| Enable | **Method** : enable()
 <EJ.Toolbar id="toolbar" ></EJ.Toolbar>

var obj=\$('#toolbar').ejToolbar('instance')
obj.enable(); | **Method** : disable(false)
 <ToolbarComponent id="toolbar" ref = {{(scope) => {this.ToolbarObj = scope}}} ></ToolbarComponent>

constructor(props: {}) {
 this.ToolbarObj.disable(false); |

| Disable | **Method** : disable()
 <EJ.Toolbar id="toolbar" ></EJ.Toolbar>

var obj=\$('#toolbar').ejToolbar('instance')
obj.disable(); | **Method** : disable(true)
 <ToolbarComponent id="toolbar" ref = {{(scope) => {this.ToolbarObj = scope}}} ></ToolbarComponent>

constructor(props: {}) {
 this.ToolbarObj.disable(true); |

| Show | **Method** : show()
 <EJ.Toolbar id="toolbar" ></EJ.Toolbar>

var obj=\$('#toolbar').ejToolbar('instance')
obj.show(); | Not Applicable |

| Hide | **Method** : hide()
 <EJ.Toolbar id="toolbar" ></EJ.Toolbar>

var obj=\$('#toolbar').ejToolbar('instance')
obj.hide(); | Not Applicable |

| Refresh | Not Applicable | **Method** : refresh()
 <ToolbarComponent id="toolbar" ref = {{(scope) => {this.ToolbarObj = scope}}} ></ToolbarComponent>

constructor(props: {}) {
 this.ToolbarObj.refresh(); |

| Destroy | **Method** : destroy()
 <EJ.Toolbar id="toolbar" ></EJ.Toolbar>

var obj=\$('#toolbar').ejToolbar('instance')
obj.destroy(); | **Method** : destroy()
 <ToolbarComponent id="toolbar" ref = {{(scope) => {this.ToolbarObj = scope}}} ></ToolbarComponent>

constructor(props: {}) {
 this.ToolbarObj.destroy(); |

| BeforeCreate | Not Applicable | **Event**: created
 <ToolbarComponent id="toolbar" created={onbeforeCreate.bind(this)} ></ToolbarComponent>

 onbeforeCreate(event) { } |

| Created | **Event**: create
 <EJ.Toolbar id="toolbar" create={this.onCreate} ></EJ.Toolbar>

 onCreate(event) { } | **Event**: created
 <ToolbarComponent id="toolbar" created={oncreated.bind(this)} ></ToolbarComponent>

 oncreated(event) { } |

```
|Destroyed | Event: destroy<br/> <EJ.Toolbar id="toolbar"
destroy={this.ondestroy}></EJ.Toolbar><br/> <br/> ondestroy(event) { } | Event: destroyed<br/>
<ToolbarComponent id="toolbar"
destroyed={ondestroyed.bind(this)}></ToolbarComponent><br/> <br/> ondestroyed(event) { } |

|FocusOut | Event: focusOut<br/> <EJ.Toolbar id="toolbar"
focusOut={onfocusOut.bind(this)}></EJ.Toolbar><br/> <br/> onfocusOut(event) { } |<b>Not
Applicable</b> |

|overflowOpen | Event: overflowOpen<br/> <EJ.Toolbar id="toolbar"
(overflowOpen)={this.onoverflowOpen}></EJ.Toolbar><br/> <br/> onoverflowOpen(event) { }
|<b>Not Applicable</b> |

|overflowClose | Event: overflowClose<br/> <EJ.Toolbar id="toolbar"
(overflowClose)={this.onoverflowClose}></EJ.Toolbar><br/> <br/> onoverflowClose(event) { } |
<b>Not Applicable</b> |
```

Tooltip

Getting Started

This section briefly explains how to create a simple [Link to the Video](#) component and configure its available functionalities in React.

To get start quickly with React Tooltip, you can check on this video:

Tooltips can be initialized on,

- A single element (or)
- A container that has more than one sub-element within it and the sub-elements are considered as targets.

Dependencies

The following list of dependencies are required to use the Tooltip component in your application.

```
`javascript
|-- @syncfusion/ej2-react-popups
|-- @syncfusion/ej2-base
|-- @syncfusion/ej2-react-base
|-- @syncfusion/ej2-popups
|-- @syncfusion/ej2-buttons
`,`
```

Installation and configuration

You can use [Create-react-app](#) to setup the applications. To install `create-react-app` run the following command.

```
`
npm install -g create-react-app
```

`

To set-up a React application in TypeScript environment, run the following command.

`

```
npx create-react-app my-app --template typescript
cd my-app
npm start
```

`

To set-up a React application in JavaScript environment, run the following command.

`

```
npx create-react-app my-app
cd my-app
npm start
```

`

Adding Syncfusion packages

All the available Essential JS 2 packages are published in [npmjs.com](https://www.npmjs.com) public registry.

Install the below required dependency package in order to use the **Tooltip** component in your application.

```
`bash
npm install @syncfusion/ej2-react-popups --save
```

`

Adding CSS Reference

To render the Tooltip component, need to import Tooltip and its dependent component's styles as given below in **src/App.css**.

```
`css
@import "../node_modules/@syncfusion/ej2-base/styles/material.css";
@import "../node_modules/@syncfusion/ej2-react-popups/styles/material.css";
```

`

Note: If you want to refer the combined component styles, please make use of our [CRG](#) (Custom Resource Generator) in your application.

Initialize the Tooltip on a single element

Import the Tooltip component to your **src/App.tsx** file using following code.

```
`javascript
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import './App.css';
```



```
function App() {
  let style: object = {
    display: 'inline-block',
    margin: '60px'
  };
  return (
    <TooltipComponent content="Tooltip Content" style={style}>
      Show Tooltip
    </TooltipComponent>
  );
}
`ts
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import './App.css';
function App() {
  let style = {
    display: 'inline-block',
    margin: '60px'
  };
  return (<TooltipComponent content="Tooltip Content" style={style}>
    Show Tooltip
  </TooltipComponent>);
}
```

Run the application

Now, use the `npm start` command to run the application in the browser.

```
npm start
```

The output will be as follows:

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (<div id="container">
        <TooltipComponent position="TopCenter" content="Tooltip Content"
        target="#target">
            <button className="e-btn tooltipElement" id="target" >Show
            Tooltip</button>
        </TooltipComponent>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <div id="container">
            <TooltipComponent position="TopCenter" content="Tooltip Content"
            target="#target">
                <button className="e-btn tooltipElement" id="target" >Show
                Tooltip</button>
            </TooltipComponent>
        </div>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Syncfusion React Tooltip</title>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta name="description" content="Essential JS 2 for React Components"
/>
    <meta name="author" content="Syncfusion" />
    <link href="https://cdn.syncfusion.com/ej2/20.3.56/ej2-
base/styles/material.css" rel="stylesheet" />
    <link href="https://cdn.syncfusion.com/ej2/20.3.56/ej2-react-
popups/styles/material.css" rel="stylesheet" />
    <link href="https://cdn.syncfusion.com/ej2/20.3.56/ej2-react-
buttons/styles/material.css" rel="stylesheet" />
    <link href="https://cdn.syncfusion.com/ej2/20.3.56/ej2-
inputs/styles/material.css" rel="stylesheet" />
    <link href="index.css" rel="stylesheet" />
```

```

    <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet" />
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/systemjs/0.19.38/system.js"></sc
ript>
    <script src="systemjs.config.js"></script>
</head>
<body>
    <div id='sample'>
        <div id='loader'>Loading....</div>
    </div>
</body>
</html>

```

Initialize Tooltip within a container

You can create Tooltips on multiple targets within a container. To do so, you have to define specific target elements to the `target` property so that the Tooltip is initialized only on matched targets within a container. In this case, the Tooltip content is assigned from the `title` attribute of the target element.

Refer to the following code example to create a Tooltip on multiple targets within a container.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
    return (<div id='container'>
        <TooltipComponent id="details" target='.e-info'
position='RightCenter'>
            <form id="details" role="form">
                <table>
                    <tbody>
                        <tr>
                            <td className="info">User Name</td>
                            <td>
                                <input type="text" className="e-info"
name="firstname" title="Please enter your name"/> </td>
                            </tr>
                        <tr>
                            <td className="info">Email Address</td>
                            <td>
                                <input type="text" className="e-info"
name="email" title="Enter a valid email address"/>
                            </td>
                        </tr>
                        <tr>
                            <td className="info">Password</td>
                            <td>
                                <input type="password" className="e-info"
name="password" title="Be at least 8 characters length"/>
                            </td>
                        </tr>
                    </tbody>
                </table>
            </form>
        </TooltipComponent>
    </div>);
}

```

```

        <td className="info">Confirm Password</td>
        <td>
            <input type="password" className="e-info"
name="Cpwd" title="Re-enter your password"/>
        </td>
    </tr>
    <tr>
        <td>
            <ButtonComponent id="sample" className="center"
content="Submit"/>
        </td>
        <td>
            <ButtonComponent id="reset" className="center"
content="Reset"/>
        </td>
    </tr>
</tbody>
</table>
</form>
</TooltipComponent>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
    return (
        <div id='container'>
            <TooltipComponent id="details" target='.e-info'
position='RightCenter'>
                <form id="details" role="form">
                    <table>
                        <tbody>
                            <tr>
                                <td className="info">User Name</td>
                                <td>
                                    <input type="text" className="e-info"
name="firstname" title="Please enter your name" /> </td>
                                </tr>
                                <tr>
                                    <td className="info">Email Address</td>
                                    <td>
                                        <input type="text" className="e-info"
name="email" title="Enter a valid email address" />
                                    </td>
                                </tr>
                                <tr>
                                    <td className="info">Password</td>
                                    <td>

```

```

        <input type="password" className="e-info"
name="password" title="Be at least 8 characters length" />
      </td>
    </tr>
    <tr>
      <td className="info">Confirm Password</td>
      <td>
        <input type="password" className="e-info"
name="Cpwd" title="Re-enter your password" />
      </td>
    </tr>
    <tr>
      <td>
        <ButtonComponent id="sample" className="center"
content="Submit"/>
      </td>
      <td>
        <ButtonComponent id="reset" className="center"
content="Reset"/>
      </td>
    </tr>
  </tbody>
</table>
</form>
</TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

In the above sample, `details` refers to the container's id, and the target `.e-info` refers to the target elements available within that container.

See Also

[Positioning Tooltip](#)

[Tooltip Open Mode](#)

[Customize the Tooltip](#)

Setting dimension in React Tooltip component

Height and width

The Tooltip can either be assigned auto height and width values or specific pixel values. The `width` and `height` properties are used to set the outer dimension of the Tooltip element. The default value for both the properties is `auto`. It also accepts string and number values in pixels.

The following sample explains how to set dimensions for the Tooltip.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {

```

```

    return (<TooltipComponent width="180px" height="40px" content="This
tooltip has 180px width and 40px height">
    <div id='target'>Show Tooltip</div>
    </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <TooltipComponent width="180px" height="40px" content="This tooltip has
180px width and 40px height">
        <div id='target'>Show Tooltip</div>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Scroll mode

When **height** is specified with a certain pixel value and the Tooltip content overflows, the scrolling mode gets enabled.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    function content() {
        return (<span id='tooltipContent'>
            <p><strong>Environmentally friendly</strong> or <strong>environment-
friendly</strong>, <i>(also referred to as eco-friendly, nature-friendly,
and green)</i> are marketing and sustainability terms referring to goods and
services, laws, guidelines and policies that inflict reduced, minimal, or no
harm upon ecosystems or the environment.</p></span>);
    }
    let style = {
        display: 'inline-block',
        padding: '5px'
    };
    return (<p>A green home is a type of house designed to be
        <TooltipComponent width="300px" height="60px" isSticky={true}
content={content} style={style}>
            <a><u>environmentally friendly</u></a>
        </TooltipComponent> and sustainable. And also focuses on the
efficient use of "energy, water, and building materials." As green homes
have become more prevalent we have also seen the emergence of
green affordable housing.
        </p>);
}

```

```

}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  function content() {
    return (
      <span id='tooltipContent'>
        <p><strong>Environmentally friendly</strong> or <strong>environment-
friendly</strong>, <i>(also referred to as eco-friendly, nature-friendly,
and green)</i> are marketing and sustainability terms referring to goods and
services, laws, guidelines and policies that inflict reduced, minimal, or no
harm upon ecosystems or the environment.</p></span>
      )
    );
    let style: object = {
      display: 'inline-block',
      padding : '5px'
    };
    return (
      <TooltipComponent width="300px" height="60px" isSticky={true}
content={content} style={style}>
        <p>A green home is a type of house designed to be
        <a><u>environmentally friendly</u></a>
        and sustainable. And also focuses on the efficient use of
        "energy, water, and building materials." As green homes
        have become more prevalent we have also seen the emergence
        of green affordable housing.</p>
      </TooltipComponent>
    );
  }
  export default App;
  ReactDOM.render(<App />, document.getElementById('sample'));
}

```

The scrolling mode can best be seen when the sticky mode of the Tooltip is enabled. To enable sticky mode, set the `isSticky` property to true.

Content in React Tooltip component

A text or a piece of information assigned to the Tooltip's `content` property will be displayed as the main text stream of the Tooltip.

It can be a string or a template content. If the `content` property is not provided with any specific value, then it takes the value assigned to the `title` attribute of the target element on which the Tooltip was initialized. The content can also dynamically be assigned to the Tooltip via Fetch.

Template content

Any text or image can be added to the Tooltip, by default. To customize the Tooltip layout or to create your own visualized element on the Tooltip, template can be used.

Refer to the following code example to add formatted HTML content to the Tooltip.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    function content() {
        return (<span id='tooltipContent'>
            <p><strong>Environmentally friendly</strong> or <strong>environment-
friendly</strong>, <i>(also referred to as eco-friendly, nature-friendly,
and green)</i> are marketing and sustainability terms referring to goods and
services, laws, guidelines and policies that inflict reduced, minimal, or no
harm upon ecosystems or the environment.</p></span>);
    }
    let style = {
        display: 'inline-block',
        padding: '5px'
    };
    return (<div>A green home is a type of house designed to be
        <TooltipComponent isSticky={true} content={content}
style={style}>
            <a><u>environmentally friendly</u></a>
        </TooltipComponent> and sustainable. And also focuses on the
efficient use of "energy, water, and building materials." As green homes
        have become more prevalent we have also seen the emergence of
green affordable housing.
        </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    function content() {
        return (
            <span id='tooltipContent'>
                <p><strong>Environmentally friendly</strong> or <strong>environment-
friendly</strong>, <i>(also referred to as eco-friendly, nature-friendly,
and green)</i> are marketing and sustainability terms referring to goods and
services, laws, guidelines and policies that inflict reduced, minimal, or no
harm upon ecosystems or the environment.</p></span>
            )
    }
    let style: object = {
        display: 'inline-block',
        padding : '5px'
    };
    return (
        <div>A green home is a type of house designed to be
            <TooltipComponent isSticky={true} content={content} style={style}>
                <a><u>environmentally friendly</u></a>
            </TooltipComponent> and sustainable. And also focuses on the
efficient use of "energy, water, and building materials." As green homes
            have become more prevalent we have also seen the emergence of
green affordable housing.
        </div>);
}
```



```

    </TooltipComponent> and sustainable. And also focuses on the
    efficient use of "energy, water, and building materials." As green homes
    have become more prevalent we have also seen the emergence of
    green affordable housing.
  </div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Dynamic content via Fetch

The Tooltip content can be dynamically loaded by making use of the Fetch call. The Fetch request is usually made within the `beforeRender` event of the Tooltip, and then the Tooltip's `content` is assigned the value retrieved on it's success.

Note: The Tooltip `target` property includes a unique identifier used to associate Tooltips with specific elements on a webpage or application interface. When setting the Tooltip `target` value as a GUID (Globally Unique Identifier), it's important to note that the GUID must start with a combination of **letters** before the numeric portion of the GUID. For example, `target: '# + 'tooltip'+ '96ad88bd-294c-47c3-999b-a9daa3285a05'`.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Fetch } from '@syncfusion/ej2-base';
function App() {
  let tooltipInstance;
  function onBeforeRender(args) {
    tooltipInstance.content = 'Loading...';
    tooltipInstance.dataBind();
    let fetchApi = new Fetch('./tooltipdata.json', 'GET');
    fetchApi.send().then((result) => {
      for (let i = 0; i < result.length; i++) {
        if (result[i].Id === args.target.getAttribute('data-
content')) {
          tooltipInstance.content = "<div class='contentWrap'>" +
result[i].Sports + "</div>";
        }
      }
      tooltipInstance.dataBind();
    }, (reason) => {
      tooltipInstance.content = reason.message;
      tooltipInstance.dataBind();
    });
  }
  return (<div id="container">
    <h4>National Sports</h4>
    <TooltipComponent id="targetContainer" ref={t => tooltipInstance = t}
    className="e-prevent-select" content="Loading..." target=".target"
    position="RightCenter" beforeRender={onBeforeRender.bind(this)}>
      <div id="countrylist">
        <ul>
          <li className="target" title="1"><span>Australia</span></li>

```

```

        <li className="target" title="2"><span>Bhutan</span></li>
        <li className="target" title="3"><span>China</span></li>
        <li className="target" title="4"><span>Cuba</span></li>
        <li className="target" title="5"><span>India</span></li>
        <li className="target" title="6"><span>Switzerland</span></li>
        <li className="target" title="7"><span>United States</span></li>
      </ul>
    </div>
  </TooltipComponent>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent, TooltipEventArgs } from '@syncfusion/ej2-react-popups';
import { Fetch } from '@syncfusion/ej2-base';
function App() {
  let tooltipInstance: TooltipComponent;
  function onBeforeRender(args: TooltipEventArgs): void {
    tooltipInstance.content = 'Loading...';
    tooltipInstance.dataBind();
    let fetchApi: Fetch = new Fetch('./tooltipdata.json', 'GET');
    fetchApi.send().then(
      (result: any) => {
        for (let i: number = 0; i < result.length; i++) {
          if (result[i].Id === args.target.getAttribute('data-content')) {
            tooltipInstance.content = "<div class='contentWrap'" +
result[i].Sports + "</div>";
          }
        }
        tooltipInstance.dataBind();
      },
      (reason: any) => {
        tooltipInstance.content = reason.message;
        tooltipInstance.dataBind();
      }
    );
  }
  return (
    <div id="container">
      <h4>National Sports</h4>
      <TooltipComponent id="targetContainer" ref={t => tooltipInstance = t}
className="e-prevent-select" content="Loading..." target=".target"
position="RightCenter" beforeRender={onBeforeRender.bind(this)}>
        <div id="countrylist">
          <ul>
            <li className="target" title="1"><span>Australia</span></li>
            <li className="target" title="2"><span>Bhutan</span></li>
            <li className="target" title="3"><span>China</span></li>
            <li className="target" title="4"><span>Cuba</span></li>
            <li className="target" title="5"><span>India</span></li>
            <li className="target" title="6"><span>Switzerland</span></li>

```

```

        <li className="target" title="7"><span>United States</span></li>
      </ul>
    </div>
  </TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Position in React Tooltip component

Tooltips can be attached to 12 static locations around the target. On initializing the Tooltip, you can set the position property with any one of the following values:

- TopLeft
- TopCenter
- TopRight
- BottomLeft
- BottomCenter
- BottomRight
- LeftTop
- LeftCenter
- LeftBottom
- RightTop
- RightCenter
- RightBottom

By default, Tooltip is placed at the **TopCenter** of the target element.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  let dropElement;
  let tooltipInstance;
  function change() {
    tooltipInstance.position = dropElement.value;
  }
  return (
    <div id='container'>
      <TooltipComponent ref={t => tooltipInstance = t}
        className="tooltip-box" content='Tooltip Content' target='#tooltip'>
        <div id="tooltip">Show Tooltip</div>
      </TooltipComponent>
      <div className='ddl'>
        <select id="positions" ref={d => dropElement = d}
          onChange={change.bind(this)} className="form-control drop-inline"
          value="TopCenter">
          <option value="TopLeft">Top Left</option>
          <option value="TopCenter">Top Center</option>

```

```

        <option value="TopRight">Top Right</option>
        <option value="BottomLeft">Bottom Left</option>
        <option value="BottomCenter">Bottom Center</option>
        <option value="BottomRight">Bottom Right</option>
        <option value="LeftTop">Left Top</option>
        <option value="LeftCenter">Left Center</option>
        <option value="LeftBottom">Left Bottom</option>
        <option value="RightTop">Right Top</option>
        <option value="RightCenter">Right Center</option>
        <option value="RightBottom">Right Bottom</option>
      </select>
    </div>
  </div>;
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent, Position } from '@syncfusion/ej2-react-popups';
function App() {
  let dropElement: HTMLSelectElement;
  let tooltipInstance: TooltipComponent;
  function change(): void {
    tooltipInstance.position = dropElement.value as Position;
  }
  return (
    <div id='container'>
      <TooltipComponent ref={t => tooltipInstance = t}
        className="tooltip-box" content='Tooltip Content' target='#tooltip'>
        <div id="tooltip">Show Tooltip</div>
      </TooltipComponent>
      <div className='ddl'>
        <select id="positions" ref={d => dropElement = d}
          onChange={change.bind(this)} className="form-control drop-inline"
          value="TopCenter">
          <option value="TopLeft">Top Left</option>
          <option value="TopCenter">Top Center</option>
          <option value="TopRight">Top Right</option>
          <option value="BottomLeft">Bottom Left</option>
          <option value="BottomCenter">Bottom Center</option>
          <option value="BottomRight">Bottom Right</option>
          <option value="LeftTop">Left Top</option>
          <option value="LeftCenter">Left Center</option>
          <option value="LeftBottom">Left Bottom</option>
          <option value="RightTop">Right Top</option>
          <option value="RightCenter">Right Center</option>
          <option value="RightBottom">Right Bottom</option>
        </select>
      </div>
    </div>
  );
}
export default App;

```

```
ReactDOM.render(<App />, document.getElementById('sample'));
```

Tip pointer positioning

The Tooltip pointer can be attached or detached from the Tooltip by using the `showTipPointer` property.

Pointer positions can be adjusted using the `tipPointerPosition` property that can be assigned to one of the following values:

- Auto
- Start
- Middle
- End

The following code example illustrates how to set the pointer to the start position of the Tooltip.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (<TooltipComponent className="tooltip-box" content='Tooltip Content' tipPointerPosition='Start' target='#target'>
        <button className="e-btn" id='target'>Show Tooltip</button>
    </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <TooltipComponent className="tooltip-box" content='Tooltip Content'
            tipPointerPosition='Start' target='#target'>
            <button className="e-btn" id='target'>Show Tooltip</button>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

By default, tip pointers are auto adjusted so that the arrow does not point outside the target element.

Dynamic positioning

The Tooltip and its tip pointer can be positioned dynamically based on the target's location. This can be achieved by using the `refresh` method, which auto adjusts the Tooltip over the target.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Draggable } from '@syncfusion/ej2-base';
function App() {
    React.useEffect(() => {
        rendereComplete();
    }, []);
    let tooltipInstance;
    let tooltipAnimation = {
        open: { effect: 'None' },
        close: { effect: 'None' }
    };
    function rendereComplete() {
        let ele = document.getElementById('demoSmart');
        let drag = new Draggable(ele, {
            clone: false,
            dragArea: '#targetContainer',
            drag: (args) => {
                if (args.element.getAttribute('data-tooltip-id') === null) {
                    tooltipInstance.open(args.element);
                }
                else {
                    tooltipInstance.refresh(args.element);
                }
            },
            dragStart: (args) => {
                if (args.element.getAttribute('data-tooltip-id') === null) {
                    tooltipInstance.open(args.element);
                }
            },
            dragStop: (args) => {
                tooltipInstance.close();
            }
        });
    };
    return (<div id='targetContainer'>
        <TooltipComponent ref={t => tooltipInstance = t}
        target='#demoSmart' content='Drag me !!!' animation={tooltipAnimation}>
        <div id='demoSmart'>
            </div>
        </TooltipComponent>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Draggable } from '@syncfusion/ej2-base';
function App() {
    React.useEffect(() => {
        rendereComplete();
    }, []);
    let tooltipInstance;
    let tooltipAnimation = {
        open: { effect: 'None' },
        close: { effect: 'None' }
    };
    function rendereComplete() {
        let ele = document.getElementById('demoSmart');
        let drag = new Draggable(ele, {
            clone: false,
            dragArea: '#targetContainer',
            drag: (args) => {
                if (args.element.getAttribute('data-tooltip-id') === null) {
                    tooltipInstance.open(args.element);
                }
                else {
                    tooltipInstance.refresh(args.element);
                }
            },
            dragStart: (args) => {
                if (args.element.getAttribute('data-tooltip-id') === null) {
                    tooltipInstance.open(args.element);
                }
            },
            dragStop: (args) => {
                tooltipInstance.close();
            }
        });
    };
    return (<div id='targetContainer'>
        <TooltipComponent ref={t => tooltipInstance = t}
        target='#demoSmart' content='Drag me !!!' animation={tooltipAnimation}>
        <div id='demoSmart'>
            </div>
        </TooltipComponent>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

```

    }, []);
    let tooltipInstance: TooltipComponent;
    let tooltipAnimation: Object = {
      open: { effect: 'None' },
      close: { effect: 'None' }
    };
    function rendereComplete() {
      let ele: HTMLElement = document.getElementById('demoSmart');
      let drag: Draggable = new Draggable(ele, {
        clone: false,
        dragArea: '#targetContainer',
        drag: (args: any) => {
          if (args.element.getAttribute('data-tooltip-id') === null) {
            tooltipInstance.open(args.element);
          } else {
            tooltipInstance.refresh(args.element);
          }
        },
        dragStart: (args: any) => {
          if (args.element.getAttribute('data-tooltip-id') === null) {
            tooltipInstance.open(args.element);
          }
        },
        dragStop: (args: any) => {
          tooltipInstance.close();
        }
      });
    }
    return (<div id='targetContainer'>
      <TooltipComponent ref={t => tooltipInstance = t}
        target='#demoSmart' content='Drag me !!!' animation={tooltipAnimation}>
        <div id='demoSmart'>
          </div>
        </TooltipComponent>
      </div>
    );
  }
  export default App;
  ReactDOM.render(<App />, document.getElementById('sample'));

```

Mouse trailing

Tooltips can be positioned relative to the mouse pointer. This behavior can be enabled or disabled by using the `mouseTrail` property.

By default, it is set to `false`.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  return (<TooltipComponent className="tooltip-box" content='Tooltip
Content' mouseTrail={true} showTipPointer={false}>
    <div id='target'>Show Tooltip</div>
  </TooltipComponent>);
}

```

```

}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <TooltipComponent className="tooltip-box" content='Tooltip Content'
        mouseTrail={true} showTipPointer={false}>
            <div id='target'>Show Tooltip</div>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

When mouse trailing option is enabled, the tip pointer position gets auto adjusted based on the target, and

other position values like start, end, and middle are not applied (to prevent the pointer from moving out of target).

Setting offset values

Offset values are set to specify the distance between the target and tooltip element. `offsetX` and `offsetY` properties are used to specify the offset left and top values.

- `offsetX` specifies the distance between the target and Tooltip element in X axis.
- `offsetY` specifies the distance between the target and Tooltip element in Y axis.

The following code example illustrates how to set offset values.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (<TooltipComponent className="tooltip-box" offsetX={30}
    offsetY={30} showTipPointer={false} mouseTrail={true} content='Tooltip
    Content'>
        <div id='target'>Show Tooltip</div>
    </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';

```



```
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  return (
    <TooltipComponent className="tooltip-box" offsetX={30} offsetY={30}
    showTipPointer={false} mouseTrail={true} content='Tooltip Content'>
      <div id='target'>Show Tooltip</div>
    </TooltipComponent>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

By default, collision is handled automatically and therefore when collision is detected the Tooltip fits horizontally and flips vertically.

Open mode in React Tooltip component

You can decide the mode on which the Tooltip is to be opened on a page, i.e., on hovering, focusing, or clicking on the target elements.

On mobile devices, Tooltips appear when you tap and hold the element, even if the `opensOn` option is assigned with `Hover`.

Tooltips are also displayed as long as you continue to tap and hold the element. On lift, it disappears in the next 1.5 seconds.

If there is another action before that time ends, then the Tooltip disappears.

The `opensOn` property can take either a single or a combination of multiple values, separated by space from the following options.

The table below explains how the Tooltip opens on both desktop and mobile based on the value(s) assigned to the `opensOn` property.

By default, it takes `Auto` value.

Values	Desktop	Mobile
<code>Auto</code>	Tooltip appears when you hover over the target or when the target element receives the focus.	Tooltip opens on tap and hold of the target element.
<code>Hover</code>	Tooltip appears when you hover over the target.	Tooltip opens on tap and hold of the target element.
<code>Click</code>	Tooltip appears when you click a target element.	Tooltip appears when you single tap the target element.
<code>Focus</code>	Tooltip appears when you focus (say through tab key) on a target element.	Tooltip appears with a single tap on the target element.
<code>Custom</code>	Tooltip is not triggered by any default action. So, you have to bind your own events and use either <code>open</code> or <code>close</code> public methods. Same as Desktop.	

To open the Tooltip for multiple actions, say while hovering over or clicking on a target element, the `opensOn` property can be assigned with multiple values, separated by space as `hover click`.

Auto value cannot be used with any combination for multiple values.

The following code example shows how to set the open mode for Tooltips.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    let buttonElement;
    let tooltipInstance;
    function handleClick() {
        if (buttonElement.getAttribute('data-tooltip-id')) {
            tooltipInstance.close();
        }
        else {
            tooltipInstance.open(buttonElement);
        }
    }
    ;
    let style = {
        margin: '150px auto 0 auto', transform: 'translateY(-50%)'
    };
    let margin = {
        margin: '40px'
    };
    return (<div id='container'>
        <table style={style}>
            <tbody>
                <tr>
                    <td>
                        <TooltipComponent content='Tooltip from hover'
opensOn='Hover' target='#hoverButton'>
                            <button style={margin} id='hoverButton'
className="e-btn blocks">Hover Me !(Default)</button>
                        </TooltipComponent>
                    </td>
                    <td>
                        <TooltipComponent content='Tooltip from click'
opensOn='Click' target='#clickButton'>
                            <button style={margin} id='clickButton'
className="e-btn blocks">Click Me !</button>
                        </TooltipComponent>
                    </td>
                </tr>
                <tr>
                    <td>
                        <TooltipComponent content='Tooltip from focus'
opensOn='Focus' target='#tooltipfocus'>
                            <span style={margin} id="textbox"
className="e-float-input blocks">
                                <input id="tooltipfocus" type="text"
placeholder="Focus and blur"/>
                            </span>
                        </TooltipComponent>
                    </td>
                </tr>
            </tbody>
        </table>
    </div>);
}
```

```

        <td>
          <TooltipComponent className="wrap" ref={t =>
tooltipInstance = t} opensOn='custom' content='Tooltip from custom mode'>
            <input id="box" type="button" className="e-
btn" ref={d => buttonElement = d} onClick={handleClick.bind(this)}
value="Click to open tooltip manually"/>
          </TooltipComponent>
        </td>
      </tr>
    </tbody>
  </table>
</div>;
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  let buttonElement: HTMLElement;
  let tooltipInstance: TooltipComponent;
  function handleClick(): void {
    if (buttonElement.getAttribute('data-tooltip-id')) {
      tooltipInstance.close();
    } else {
      tooltipInstance.open(buttonElement);
    }
  };
  let style: object = {
    margin: '150px auto 0 auto', transform: 'translateY(-50%)'
  };
  let margin: object = {
    margin: '40px'
  };
  return (
    <div id='container'>
      <table style={style}>
        <tbody>
          <tr>
            <td>
              <TooltipComponent content='Tooltip from hover'
opensOn='Hover' target='#hoverButton'>
                <button style={margin} id='hoverButton'
className="e-btn blocks">Hover Me !(Default)</button>
              </TooltipComponent>
            </td>
            <td>
              <TooltipComponent content='Tooltip from click'
opensOn='Click' target='#clickButton'>
                <button style={margin} id='clickButton'
className="e-btn blocks">Click Me !(Default)</button>
              </TooltipComponent>
            </td>
          </tr>
        </tbody>
      </table>
    </div>
  );
}

```

```

        </tr>
        <tr>
            <td>
                <TooltipComponent content='Tooltip from focus'
opensOn='Focus' target='#tooltipfocus'>
                    <span style={margin} id="textbox"
className="e-float-input blocks">
                        <input id="tooltipfocus" type="text"
placeholder="Focus and blur" />
                    </span>
                </TooltipComponent>
            </td>
            <td>
                <TooltipComponent className="wrap" ref={t =>
tooltipInstance = t} opensOn='custom' content='Tooltip from custom mode'>
                    <input id="box" type="button" className="e-
btn" ref={d => buttonElement = d} onClick={handleClick.bind(this)}
value="Click to open tooltip manually" />
                </TooltipComponent>
            </td>
        </tr>
    </tbody>
</table>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Custom open mode

Other than the above specified options, the custom mode makes the Tooltip appear on screen for user-defined custom actions such as right-click, double-click, and so on. Here, the tooltip is not triggered by any default action, and you have to bind your own events and use either `open` or `close` public methods to show or hide the Tooltips.

The following code example shows how to define custom open mode for the Tooltip.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    let buttonElement;
    let tooltipInstance;
    function handleDoubleClick() {
        if (buttonElement.getAttribute('data-tooltip-id')) {
            tooltipInstance.close();
        }
        else {
            tooltipInstance.open(buttonElement);
        }
    }
}
;
```

```

    return (<TooltipComponent className="wrap" ref={t => tooltipInstance =
t} opensOn='custom' content='Tooltip from custom mode'>
      <input id="box" type="button" ref={d => buttonElement = d}
onDoubleClick={handleDoubleClick.bind(this)} value="Double click to open
tooltip"/>
    </TooltipComponent>);
  }
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  let buttonElement: HTMLElement;
  let tooltipInstance: TooltipComponent;
  function handleDoubleClick(): void {
    if (buttonElement.getAttribute('data-tooltip-id')) {
      tooltipInstance.close();
    } else {
      tooltipInstance.open(buttonElement);
    }
  };
  return (
    <TooltipComponent className="wrap" ref={t => tooltipInstance = t}
opensOn='custom' content='Tooltip from custom mode'>
      <input id="box" type="button" ref={d => buttonElement = d}
onDoubleClick={handleDoubleClick.bind(this)} value="Double click to open
tooltip" />
    </TooltipComponent>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Sticky mode

With this mode set to **true**, Tooltips can be made to show up on the screen as long as the close icon is pressed. In this mode, close icon is attached to the Tooltip located at the top right corner. This mode can be enabled or disabled using the **isSticky** property.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  return (<TooltipComponent className="tooltip-box" isSticky={true}
content='Click close icon to close me'>
    <div id='target'>Show Tooltip</div>
  </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <TooltipComponent className="tooltip-box" isSticky={true}
        content='Click close icon to close me'>
            <div id='target'>Show Tooltip</div>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Open/Close Tooltip with delay

The Tooltips can be opened or closed after some delay by using the `openDelay` and `closeDelay` properties.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (<TooltipComponent className="tooltip-box" content='Tooltip with
    delay' openDelay={1000} closeDelay={1000}>
        <div id='target'>Show Tooltip</div>
    </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <TooltipComponent className="tooltip-box" content='Tooltip with delay'
        openDelay={1000} closeDelay={1000}>
            <div id='target'>Show Tooltip</div>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Animation in React Tooltip component

To animate the Tooltip, a set of specific animation effects are available, and it can be controlled using the `animation` property.

The animation property also allows you to set delay, duration, and various other effects of your choice.

`AnimationModel` is derived from base to apply the chosen animation effect, duration, etc. on Tooltips.

By default, Tooltip entrance occurs over 150 ms using the `ease-out` timing function. It exits also at 150 ms, but uses `ease-in` timing function.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  let TooltipAnimation = {
    open: { effect: 'ZoomIn', duration: 1000, delay: 0 },
    close: { effect: 'ZoomOut', duration: 500, delay: 0 }
  };
  return (
    <TooltipComponent className="tooltip-box" content='Tooltip
animation effect' animation={TooltipAnimation}>
      <div id='target'>Show Tooltip</div>
    </TooltipComponent>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  let TooltipAnimation: Object = {
    open: { effect: 'ZoomIn', duration: 1000, delay: 0 },
    close: { effect: 'ZoomOut', duration: 500, delay: 0 }
  };
  return (
    <TooltipComponent className="tooltip-box" content='Tooltip animation
effect' animation={TooltipAnimation}>
      <div id='target'>Show Tooltip</div>
    </TooltipComponent>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

The default animation effect for the Tooltip is set to `FadeIn` for its open action, and `FadeOut` for its close action.

The default `duration` is set to 150 ms and `delay` is set to 0.

Animation effects

The animation effects that are applicable to Tooltips are:

- FadeIn
- FadeOut
- FadeZoomIn
- FadeZoomOut
- FlipXDownIn
- FlipXDownOut
- FlipXUpIn
- FlipXUpOut
- FlipYLeftIn
- FlipYLeftOut
- FlipYRightIn
- FlipYRightOut
- ZoomIn
- ZoomOut
- None

When the `effect` is specified as `none`, no effect will be applied to the Tooltip, and animation is considered to be set to `off`.

Some of the above animation effects suits the Tooltip better when its tip pointer is hidden.

This can be achieved by setting the `showTipPointer` to false.

Animating via open/close methods

Animations can also be applied on Tooltips dynamically through `open` and `close` methods. These methods accept the animation model as an optional parameter. If you pass `TooltipAnimationSettings`, animation takes this model; otherwise, it takes the values from the `animation` property. It is also possible to pass different animations for Tooltips on each target.

Refer to the code snippet below to apply animations using public methods.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  let tooltipInstance;
  function handleClick() {
    if (tooltipInstance.element.getAttribute('data-tooltip-id')) {
      let closeAnimation = { effect: 'FadeOut', duration: 1000 };
      tooltipInstance.close(closeAnimation);
    }
    else {
      let openAnimation = { effect: 'FadeIn', duration: 1000 };
      tooltipInstance.open(tooltipInstance.element, openAnimation);
    }
  }
}
```



```

    return (<TooltipComponent className="tooltip-box" content='Tooltip
content' opensOn='custom' ref={t => tooltipInstance = t}>
    <div id='target' onClick={handleClick.bind(this)}>Click
Here</div>
    </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent, TooltipAnimationSettings } from '@syncfusion/ej2-react-popups';
function App() {
    let tooltipInstance: TooltipComponent;
    function handleClick(): void {
        if (tooltipInstance.element.getAttribute('data-tooltip-id')) {
            let closeAnimation: TooltipAnimationSettings = { effect:
'FadeOut', duration: 1000 };
            tooltipInstance.close(closeAnimation);
        } else {
            let openAnimation: TooltipAnimationSettings = { effect:
'FadeIn', duration: 1000 };
            tooltipInstance.open(tooltipInstance.element, openAnimation);
        }
    };
    return (
        <TooltipComponent className="tooltip-box" content='Tooltip content'
opensOn='custom' ref={t => tooltipInstance = t}>
        <div id='target' onClick={handleClick.bind(this)}>Click
Here</div>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Apply transition

The transition effect can be applied on Tooltips by using the `beforeRender` event as given in the following work-around code example.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    let tooltipInstance;
    let TooltipAnimation = {
        open: { effect: 'ZoomIn', duration: 500 },
        close: { effect: 'ZoomOut', duration: 500 }
    };
    function onBeforeRender(args) {

```

```

        if (args.element) {
            tooltipInstance.animation = { open: { effect: 'None' } };
            args.element.style.display = 'block';
            args.element.style.transitionProperty = 'left,top';
            args.element.style.transitionDuration = '1000ms';
        }
    };
    ;
    function onAfterClose(args) {
        tooltipInstance.animation = TooltipAnimation;
    }
    ;
    let c1 = {
        top: '18%',
        left: '5%'
    };
    let c2 = {
        top: '30%',
        left: '30%'
    };
    let c3 = {
        top: '80%',
        left: '80%'
    };
    let c4 = {
        top: '65%',
        left: '50%'
    };
    let c5 = {
        top: '75%',
        left: '15%'
    };
    let c6 = {
        top: '30%',
        left: '70%'
    };
    ;
    return (<div className='wrap'>
        <h3> Transition effect </h3>
        <TooltipComponent className='circle-container' target='.circle-tool'
animation={TooltipAnimation} closeDelay={1000} ref={t => tooltipInstance =
t} beforeRender={onBeforeRender.bind(this)}
afterClose={onAfterClose.bind(this)}>
            <div className="circle-tool" style={c1} title="This is Turtle
!!!"></div>
            <div className="circle-tool" style={c2} title="This is Snake
!!!"></div>
            <div className="circle-tool" style={c3} title="This is Croc
!!!"></div>
            <div className="circle-tool" style={c4} title="This is String
Ray !!!"></div>
            <div className="circle-tool" style={c5} title="This is Blob Fish
!!!"></div>
            <div className="circle-tool" style={c6} title="This is Mammoth
!!!"></div>
        </TooltipComponent>
    </div>);
}

```

```
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent, TooltipEventArgs } from '@syncfusion/ej2-react-popups';
function App() {
    let tooltipInstance: TooltipComponent;
    let TooltipAnimation: Object = {
        open: { effect: 'ZoomIn', duration: 500 },
        close: { effect: 'ZoomOut', duration: 500 }
    };
    function onBeforeRender(args: TooltipEventArgs): void {
        if (args.element) {
            tooltipInstance.animation = { open: { effect: 'None' } };
            args.element.style.display = 'block';
            args.element.style.transitionProperty = 'left,top';
            args.element.style.transitionDuration = '1000ms';
        }
    };
    function onAfterClose(args: TooltipEventArgs): void {
        tooltipInstance.animation = TooltipAnimation;
    };
    let c1: Object = {
        top: '18%',
        left: '5%'
    };
    let c2: Object = {
        top: '30%',
        left: '30%'
    };
    let c3: Object = {
        top: '80%',
        left: '80%'
    };
    let c4: Object = {
        top: '65%',
        left: '50%'
    };
    let c5: Object = {
        top: '75%',
        left: '15%'
    };
    let c6: Object = {
        top: '30%',
        left: '70%'
    };
    return (
        <div className='wrap'>
            <h3> Transition effect </h3>
            <TooltipComponent className='circle-container' target='.circle-tool'
            animation={TooltipAnimation} closeDelay={1000} ref={t => tooltipInstance =
```

```

t} beforeRender={onBeforeRender.bind(this)}
afterClose={onAfterClose.bind(this)}>
  <div className="circle-tool" style={c1} title="This is Turtle
!!!"></div>
  <div className="circle-tool" style={c2} title="This is Snake
!!!"></div>
  <div className="circle-tool" style={c3} title="This is Croc
!!!"></div>
  <div className="circle-tool" style={c4} title="This is String
Ray !!!"></div>
  <div className="circle-tool" style={c5} title="This is Blob Fish
!!!"></div>
  <div className="circle-tool" style={c6} title="This is Mammoth
!!!"></div>
  </TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Customization in React Tooltip component

The Tooltip can be customized by using the `cssClass` property, which accepts custom CSS class names that define specific user-defined styles and themes to be applied on the Tooltip element.

Tip pointer customization

Styling the tip pointer's size, background, and border colors can be done using the `cssClass` property, as given below.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  return (<TooltipComponent className="tooltip-box" content='Tooltip arrow
customized' cssClass='customtip'>
    <div id='target'>Show Tooltip</div>
  </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  return (
    <TooltipComponent className="tooltip-box" content='Tooltip arrow
customized' cssClass='customtip'>
      <div id='target'>Show Tooltip</div>
    </TooltipComponent>
  );
}

```

```
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Tooltip customization

The complete look and feel of the Tooltip can be customized by changing its background color, opacity, content font, etc. The following code example shows the way to achieve it.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (<TooltipComponent className="tooltip-box" content='Tooltip
customized' cssClass='customtooltip'>
        <div id="target">Show Tooltip</div>
    </TooltipComponent>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    return (
        <TooltipComponent className="tooltip-box" content='Tooltip customized'
cssClass='customtooltip'>
            <div id="target">Show Tooltip</div>
        </TooltipComponent>
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Style in React Tooltip component

The following content provides the exact CSS structure that can be used to modify the control's appearance based on the user preference.

Customizing the tooltip

Use the following CSS to customize the tooltip.

```
`css
.e-tooltip-wrap {
border-radius: 4px;
opacity: 1;
}
```

Customizing the tooltip popup

Use the following CSS to customize the tooltip popup properties.

```
`css
.e-tooltip-wrap.e-popup {
background-color: #fff;
border: 2px solid #000;
}
`
```

Customizing the tooltip content

Use the following CSS to customize the tooltip content.

```
`css
.e-tooltip-wrap .e-tip-content {
color: red;
font-size: 12px;
line-height: 20px;
}
`
```

Customizing the tooltip arrow tip

Use the following CSS to customize the tooltip arrow tip.

```
`css
/ To customize the arrow tip at bottom /
.e-tooltip-wrap .e-arrow-tip.e-tip-bottom {
height: 12px;
left: 50%;
top: 100%;
width: 24px;
}
/ To customize the arrow tip at top /
.e-tooltip-wrap .e-arrow-tip.e-tip-top {
height: 12px;
left: 50%;
top: -9px;
width: 24px;
}
`
```

```
/ To customize the arrow tip at left /
.e-tooltip-wrap .e-arrow-tip.e-tip-left {
height: 24px;
left: -9px;
top: 48%;
width: 12px;
}

/ To customize the arrow tip at right /
.e-tooltip-wrap .e-arrow-tip.e-tip-right {
height: 24px;
left: 100%;
top: 50%;
width: 12px;
}
`
```

Customizing the tooltip inner tip

Use the following CSS to customize the tooltip inner tip.

```
`css
.e-tooltip-wrap .e-arrow-tip-inner.e-tip-right,
.e-tooltip-wrap .e-arrow-tip-inner.e-tip-left,
.e-tooltip-wrap .e-arrow-tip-inner.e-tip-bottom,
.e-tooltip-wrap .e-arrow-tip-inner.e-tip-top {
color: #fff;
font-size: 25.9px;
}
`
```

Customizing the tooltip outer tip

Use the following CSS to customize the tooltip outer tip.

```
`css

/ To customize the arrow tip at bottom /
.e-tooltip-wrap .e-arrow-tip-outer.e-tip-bottom {
border-left: 12px solid transparent;
border-right: 14px solid transparent;
border-top: 12px solid #000;
}
```

```




}
/ To customize the arrow tip at top /
.e-tooltip-wrap .e-arrow-tip-outer.e-tip-top {
border-bottom: 12px solid #000;
border-left: 12px solid transparent;
border-right: 12px solid transparent;
}
/ To customize the arrow tip at left /
.e-tooltip-wrap .e-arrow-tip-outer.e-tip-left {
border-bottom: 12px solid transparent;
border-right: 12px solid #000;
border-top: 12px solid transparent;
}
/ To customize the arrow tip at right /
.e-tooltip-wrap .e-arrow-tip-outer.e-tip-right {
border-bottom: 12px solid transparent;
border-left: 12px solid #000;
border-top: 12px solid transparent;
}
,

```

Accessibility in React Tooltip component

The Tooltip component followed the accessibility guidelines and standards, including [ADA, Section 508](#), [WCAG 2.2](#) standards, and [WCAG roles](#) that are commonly used to evaluate accessibility.

The accessibility compliance for the Tooltip component is outlined below.

Accessibility Criteria	Compatibility
--	--
WCAG 2.2 Support	
Section 508 Support	
Screen Reader Support	
Right-To-Left Support	

| Color Contrast | |

| Mobile Device Support | |

| Keyboard Navigation Support | |

| [Accessibility Checker](#) Validation | |

| [Axe-core](#) Accessibility Validation | |

<style>

.post .post-content img {

display: inline-block;

margin: 0.5em 0;

}

</style>

<div> - All features of the component meet the requirement.</div>

<div> - Some features of the component do not meet the requirement.</div>

<div> - The component does not meet the requirement.</div>

WAI-ARIA attributes

The Tooltip component followed the [WAI-ARIA](#) patterns to meet the accessibility. The following ARIA attributes are used in the Tooltip component.

| Attributes | Description |

| --- | --- |

| role="tooltip" | The element that serves as the container for the tooltip has the ARIA role of **tooltip**. |

| aria-describedby | This attribute is added to the target element on which the Tooltip gets opened, when focusing or hovering over it. It usually holds the randomly generated **Id** value of the Tooltip element.

 In case, the target element already holds an **aria-describedby** attribute with **Id** value of some other component, then the Tooltip **Id** value can be additionally appended to the existing **aria-describedby** attribute separated by a space as shown in the example below.

 For example:
 aria-describedby = "my-text my-tooltip"
 my-text is the **Id** of some other component.
 my-tooltip is the **id** of Tooltip component.

 When the Tooltip is closed, the **aria-describedby** attribute is removed from the target. |

| aria-hidden | This attribute is assigned to the Tooltip element whose default value is true.

 When **true**, it denotes that the Tooltip element is in a hidden or a closed state. When the Tooltip appears on the screen, it's value changes to **false**. |

Keyboard interaction

The Tooltip component followed the [keyboard interaction](#) guideline, making it easy for people who use assistive technologies (AT) and those who completely rely on keyboard navigation. The following keyboard shortcuts are supported by the Tooltip component.

Keys	Description
Esc	Closes or dismisses the Tooltip.
Tab	A form control receiving focus (say through tab key), opens the Tooltip, and on focus out closes it.

1. When the Tooltip is being displayed on the target element, focus continues to stay on it.
2. If the Tooltip opens on mouse entering into the target element space, then it should be dismissed only when the mouse leaves that target.
3. If the Tooltip opens on the target element that receives focus, then it should be closed only when the focus moves out of that target element.

Likewise, if the Tooltip opens on a click, then it should be closed only on another click action.

Ensuring accessibility

The Tooltip component's accessibility levels are ensured through an [accessibility-checker](#) and [axe-core](#) software tools during automated testing.

The accessibility compliance of the Tooltip component is shown in the following sample. Open the [sample](#) in a new window to evaluate the accessibility of the Tooltip component with accessibility tools.

See also

- [Accessibility in Syncfusion React components](#)

Ej1 api migration in React Tooltip component

This article describes the API migration process of Tooltip component from Essential JS 1 to Essential JS 2.

{% raw %}

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| -- | -- | -- |

| Position | **Property:** *position*

 public position = { target: { horizontal: "center", vertical: "top" },
 stem: { horizontal: "center", vertical: "bottom" } };

 <EJ.Tooltip id='tooltip' position={this.position}>
 </EJ.Tooltip>
 | **Property:** *position*

 <TooltipComponent position='TopCenter'>
 </TooltipComponent> |

| Animation | **Property:** *animation*

 public animation = { animation :{ effect : "slide", speed : 1000 } };

 <EJ.Tooltip id='tooltip' animation={this.animation}>
 </EJ.Tooltip>
 | **Property:** *animation*

 public animation = { open: { effect: 'FadeIn',
 duration: 150, delay: 0 },
 close: { effect: 'FadeOut',
 duration: 150, delay: 0 } };


```
</></> <TooltipComponent position='TopCenter' <br/> animation={this.animation}> <br/>
</TooltipComponent> <br/>|
```

```
| Close Time Out | Property: autoCloseTimeout <br/><br/> <EJ.Tooltip id='tooltip'
autoCloseTimeout={5000}> <br/> </EJ.Tooltip> | Property: closeDelay, openDelay <br/><br/>
<TooltipComponent position='TopCenter' <br/> closeDelay={500}> <br/> </TooltipComponent>
<br/> |
```

```
| Sticky Mode | Property: closeMode <br/><br/> <EJ.Tooltip id='tooltip' closeMode="sticky">
<br/> </EJ.Tooltip> <br/> | Property: isSticky <br/><br/> <TooltipComponent position='TopCenter'
<br/> isSticky={true}> <br/> </TooltipComponent> <br/> |
```

```
| Offset from target | Property: tip.adjust.xValue/ tip.adjust.yValue <br/><br/> public tip = { size: {
width: 25, height: 12 }, <br/> adjust: { xValue: 5, yValue: 6 } }; <br/><br/> <EJ.Tooltip id='tooltip'
tip={this.tip}> <br/> </EJ.Tooltip> <br/> | Property: offsetX/ offsetY <br/><br/>
<TooltipComponent position='TopCenter' <br/> offsetX={10} offsetY={10}> <br/>
</TooltipComponent> <br/> |
```

```
| Mouse trail on target | Not Applicable | Property: mouseTrail <br/><br/> <TooltipComponent
mouseTrail={true}> <br/> </TooltipComponent> |
```

```
| Open mode of tooltip | Not Applicable | Property: opensOn <br/><br/> <TooltipComponent
opensOn='Click'> <br/> </TooltipComponent> <br/>|
```

```
| Enable disable the tip of tooltip | Not Applicable | Property: showTipPointer <br/><br/>
<TooltipComponent showTipPointer={true}> <br/> </TooltipComponent> <br/> |
```

```
| Hide | Method: hide() <br/><br/> <EJ.Tooltip id='tooltip' content="Tooltip Content"> <br/>
</EJ.Tooltip> <br/><br/> let toolTipObj = ${{"$tooltip"}}.ejTooltip("instance"); <br/><br/>
toolTipObj.hide(); <br/> | Method: close() <br/><br/> <TooltipComponent cssClass='e-tooltip-css'
<br/> opensOn='Custom' <br/> content='Tooltip from custom mode'> <br/>
</TooltipComponent> <br/><br/> toolTipObj.close(); <br/> |
```

```
| Show | Method: show() <br/><br/> <EJ.Tooltip id='tooltip' content="Tooltip Content"> <br/>
</EJ.Tooltip> <br/><br/> let toolTipObj = ${{"$tooltip"}}.ejTooltip("instance"); <br/><br/>
toolTipObj.show(); <br/> | Method: open() <br/><br/> <TooltipComponent cssClass='e-tooltip-
css' <br/> opensOn='Custom' <br/> content='Tooltip from custom mode'> <br/>
</TooltipComponent> <br/><br/> toolTipObj.open(); <br/> |
```

```
| Enable | Method: enable() <br/><br/> <EJ.Tooltip id='tooltip' content="Tooltip Content"> <br/>
</EJ.Tooltip> <br/><br/> let toolTipObj = ${{"$tooltip"}}.ejTooltip("instance"); <br/><br/>
toolTipObj.enable(); <br/> | Method: destroy() <br/><br/> <TooltipComponent cssClass='e-
tooltip-css' <br/> content='Tooltip from custom mode'> <br/> </TooltipComponent> <br/><br/>
toolTipObj.destroy(); <br/>|
```

```
| Close | Event: close <br/><br/> public close (args: Event): void { } <br/><br/> <EJ.Tooltip
id='tooltip' close={this.close}; <br/> content="Tooltip Content"> <br/> </EJ.Tooltip> <br/> |
Event: afterClose <br/><br/> <TooltipComponent afterClose={this.afterClose}> <br/>
</TooltipComponent> <br/><br/> public afterClose(args: Event): void { } <br/> |
```

```
| Open | Event: open <br/><br/> public open (args: Event): void { }; <br/><br/> <EJ.Tooltip
id='tooltip' open={this.open} <br/> content="Tooltip Content"> <br/> </EJ.Tooltip> <br/> |
Event: afterOpen <br/><br/> <TooltipComponent afterOpen={this.afterOpen}> <br/>
</TooltipComponent> <br/><br/> public afterOpen(args: Event): void { } <br/> |

| Before Collision | Not Applicable | Event: beforeCollision <br/><br/> <TooltipComponent
beforeCollision={this.beforeCollision}> <br/> </TooltipComponent> <br/><br/> public
beforeCollision(args: Event): void { } <br/> |

| Tracking | Event: tracking <br/><br/> public tracking (args: Event): void { }; <br/><br/> <EJ.Tooltip
id='tooltip' tracking={this.tracking} <br/> content="Tooltip Content" associate="mouse"> <br/>
</EJ.Tooltip> <br/> | Method: open(),close(),refresh() <br/><br/> Sample |

{% endraw %}
```

How To

Show tooltip on disabled elements and disable tooltip in React Tooltip component

By default, Tooltips will not be displayed on disabled elements. However, it is possible to enable this behavior by following the steps below.

1. Add a disabled element like the `button` element into a div whose display style is set to `inline-block`.
2. Set the pointer event as `none` for the disabled element (button) through CSS.
3. Now, initialize the Tooltip for outer div element that holds the disabled button element.

APP.JSX

```
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent, SwitchComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  let tooltip = null;
  function change(args) {
    if (!args.checked) {
      tooltip.destroy();
    }
    else {
      tooltip.render();
    }
  }
  let box = {
    display: "inline-block"
  };
  let position = {
    position: "relative",
    top: "75px",
    transform: "translateX(-10%)"
  };
  let padding = {
    padding: "0 25px 0 0"
  };
  let inline = {
```

```

        display: "inline-block "
    };
    let margin = {
        margin: "50px"
    };
    return (<div id="container">
        <div id="box" style={box}>
            <TooltipComponent id="box" content="Tooltip from disabled element">
                <ButtonComponent id="disabledbutton" disabled={true}>
                    Disabled button
                </ButtonComponent>
            </TooltipComponent>
        </div>
        <div style={position}>
            <TooltipComponent content="Tooltip Content" target="#tooltip"
style={inline} ref={d => (tooltip = d)}>
                <ButtonComponent id="tooltip" style={margin}>
                    Show Tooltip
                </ButtonComponent>
            </TooltipComponent>
            <div className="switchContainer">
                <label htmlFor="checked" style={padding}>
                    Enable Tooltip
                </label>
                <SwitchComponent id="checked" checked={true}
change={change.bind(this)} />
            </div>
        </div>
    </div>);
}
export default App;

```

APP.TSX

```

import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent, SwitchComponent, ChangeEventArgs } from
 '@syncfusion/ej2-react-buttons';
function App() {
    let tooltip: TooltipComponent = null as any;
    function change(args: ChangeEventArgs) {
        if (!args.checked) {
            tooltip.destroy();
        } else {
            tooltip.render();
        }
    }
    let box: object = {
        display: "inline-block"
    };
    let position: object = {
        position: "relative",
        top: "75px",
        transform: "translateX(-10%)"
    };
    let padding: object = {

```

```

padding: "0 25px 0 0"
};
let inline: object = {
  display: "inline-block "
};
let margin: object = {
  margin: "50px"
};
return (
  <div id="container">
    <div id="box" style={box}>
      <TooltipComponent id="box" content="Tooltip from disabled element">
        <ButtonComponent id="disabledbutton" disabled={true}>
          Disabled button
        </ButtonComponent>
      </TooltipComponent>
    </div>
    <div style={position}>
      <TooltipComponent
        content="Tooltip Content"
        target="#tooltip"
        style={inline}
        ref={d => (tooltip = d as any)}
      >
        <ButtonComponent id="tooltip" style={margin}>
          Show Tooltip
        </ButtonComponent>
      </TooltipComponent>
      <div className="switchContainer">
        <label htmlFor="checked" style={padding}>
          Enable Tooltip
        </label>
        <SwitchComponent
          id="checked"
          checked={true}
          change={change.bind(this) as any}
        />
      </div>
    </div>
  </div>
);
}
export default App;

```

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { SwitchComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  let tooltip;
  function change(args) {
    if (!args.checked) {
      tooltip.destroy();
    }
  }
}

```

```

        else {
            tooltip.render();
        }
    }
    let box = {
        display: 'inline-block'
    };
    let position = {
        position: 'relative', top: '75px', transform: 'translateX(-10%)'
    };
    let padding = {
        padding: '0 25px 0 0'
    };
    let inline = {
        display: 'inline-block'
    };
    let margin = {
        margin: '50px'
    };
    return (<div id='container'>
        <div id="box" style={box}>
            <TooltipComponent id="box" content='Tooltip from disabled
element'>
                <button className="e-btn" id="disabledbutton"
disabled={true}>Disabled button</button>
            </TooltipComponent>
        </div>
        <div style={position}>
            <TooltipComponent content='Tooltip Content' target='#tooltip'
style={inline} ref={d => tooltip = d}>
                <button className="e-btn" id="tooltip" style={margin}>Show
Tooltip</button>
            </TooltipComponent>
            <div className="switchContainer">
                <label htmlFor="checked" style={padding}>Enable
Tooltip</label>
                <SwitchComponent id="checked" checked={true}
change={change.bind(this)}></SwitchComponent>
            </div>
        </div>);
    }
    export default App;
    ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { SwitchComponent } from '@syncfusion/ej2-react-buttons';
function App() {
    let tooltip: TooltipComponent;
    function change(args) {
        if (!args.checked) {
            tooltip.destroy();
        }
    }
}

```

```

    } else {
      tooltip.render();
    }
  }
  let box: object = {
    display: 'inline-block'
  }
  let position: object = {
    position: 'relative', top: '75px', transform: 'translateX(-10%)'
  }
  let padding: object = {
    padding: '0 25px 0 0'
  }
  let inline: object = {
    display: 'inline-block '
  }
  let margin: object = {
    margin: '50px'
  }
  return (
    <div id='container'>
      <div id="box" style={box}>
        <TooltipComponent id="box" content='Tooltip from disabled
element'>
          <button className="e-btn" id="disabledbutton"
disabled={true}>Disabled button</button>
        </TooltipComponent>
      </div>
      <div style={position}>
        <TooltipComponent content='Tooltip Content' target='#tooltip'
style={inline} ref={d => tooltip = d} >
          <button className="e-btn" id="tooltip" style={margin}>Show
Tooltip</button>
        </TooltipComponent>
        <div className="switchContainer">
          <label htmlFor="checked" style={padding}>Enable
Tooltip</label>
          <SwitchComponent id="checked" checked={true}
change={change.bind(this)}></SwitchComponent>
        </div>
      </div>
    </div>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Dynamic tooltip content with html elements in React Tooltip component

Tooltip loads HTML pages via HTML tags such as iframe, video, and map using the [content](#) property, which supports both string and HTML tags.

To load an `iframe` element in tooltip, set the required iframe in the `content` of tooltip while initializing the tooltip component. Refer to the following code.

`ts


```
content: '<iframe
src="https://ej2.syncfusion.com/showcase/typescript/expensetracker/#/dashboard"></iframe>'
,
```

Use the following steps to render **ej2-map** in tooltip:

1. Initialize the map component and create an element. After initialization, append the map object to the element.
2. Set the rendered map element to the content of tooltip component. Refer to the following sample.

APP.JSX

```
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  function iFrame() {
    return <iframe src="https://www.syncfusion.com/products/essential-
js2"/>;
  }
  return (<div id="container">
    <TooltipComponent target="#iframeContent" content={iFrame}
opensOn="Click" position="BottomCenter">
      <div id="tooltipContent">
        <div className="content">
          <ButtonComponent className="text" id="iframeContent">
            Embedded Iframe
          </ButtonComponent>
        </div>
      </div>
    </TooltipComponent>
  </div>);
}
export default App;
```

APP.TSX

```
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  function iFrame(): JSX.Element {
    return <iframe src="https://www.syncfusion.com/products/essential-js2"
/>;
  }
  return (
    <div id="container">
      <TooltipComponent
        target="#iframeContent"
        content={iFrame}
        opensOn="Click"
        position="BottomCenter"
      >
    </div>
  );
}
```

```

        <div id="tooltipContent">
            <div className="content">
                <ButtonComponent className="text" id="iframeContent">
                    Embedded Iframe
                </ButtonComponent>
            </div>
        </div>
    </TooltipComponent>
</div>
);
}
export default App;

```

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    let tooltip;
    function iFrame() {
        return <iframe
src="https://ej2.syncfusion.com/showcase/typescript/expensetracker/#/dashboa
rd"></iframe>;
    }
    return <div id='container'>
        <TooltipComponent ref={obj => tooltip = obj} target="#iframeContent"
content={iFrame} opensOn='Click' position='BottomCenter'>
            <div id="tooltipContent">
                <div className="content">
                    <button className="e-btn text" id="iframeContent">Embedded
Iframe</button>
                </div>
            </div>
        </TooltipComponent>
    </div>;
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
    let tooltip: TooltipComponent;
    function iFrame(): JSX {
        return (
            <iframe
src="https://ej2.syncfusion.com/showcase/typescript/expensetracker/#/dashboa
rd"></iframe>
        );
    }
    return (
        <div id='container'>

```

```

<TooltipComponent ref={obj => tooltip = obj} target="#iframeContent"
content={iFrame} opensOn='Click' position='BottomCenter'>
  <div id="tooltipContent">
    <div className="content">
      <button className="e-btn text" id="iframeContent">Embedded
Iframe</button>
    </div>
  </div>
</TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Tooltip open or display modes in React Tooltip component

The open mode property of tooltip can be defined on a target that is hovering, focusing, or clicking.

Tooltip component have the following types of open mode:

- Auto
- Hover
- Click
- Focus
- Custom

Auto

Tooltip appears when you hover over the target or when the target element receives the focus.

Hover

Tooltip appears when you hover over the target.

Click

Tooltip appears when you click a target element.

Focus

Tooltip appears when you focus (say through tab key) on a target element.

Custom

Tooltip is not triggered by any default action. So, bind your own events and use either open or close public methods.

APP.JSX

```

{% raw %}
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  let customTooltip = null;
  function handleDoubleClick(args) {
    if (args.target.getAttribute("data-tooltip-id")) {
      customTooltip.close();
    }
    else {
```

```

        customTooltip.open(args.target);
    }
}
return (<div id="showTooltip">
    <div id="first">
        <TooltipComponent opensOn="Hover" content="Tooltip from hover"
position="BottomCenter">
            <ButtonComponent className="blocks" id="tooltiphover" cssClass="e-
outline" isPrimary={true}>
                Hover me
            </ButtonComponent>
        </TooltipComponent>
        <TooltipComponent opensOn="Click" content="Tooltip from click"
position="BottomCenter">
            <ButtonComponent className="blocks" id="tooltipclick" cssClass="e-
outline" isPrimary={true}>
                Click me
            </ButtonComponent>
        </TooltipComponent>
    </div>
    <br />
    <br />
    <div id="second">
        <TooltipComponent content="Click close icon to close me"
position="BottomCenter" isSticky={true}>
            <ButtonComponent className="blocks" id="tooltipclick" cssClass="e-
outline" isPrimary={true}>
                Sticky mode
            </ButtonComponent>
        </TooltipComponent>
        <TooltipComponent content="Opens and closes Tooltip with delay of
<i>1000 milliseconds</i>" position="BottomCenter" openDelay="1000"
closeDelay="1000">
            <ButtonComponent className="blocks" id="tooltipclick" cssClass="e-
outline" isPrimary={true}>
                Tooltip with delay
            </ButtonComponent>
        </TooltipComponent>
    </div>
    <br />
    <br />
    <div id="third">
        <TooltipComponent content="Tooltip from custom mode" ref={tooltip =>
{
            customTooltip = tooltip;
        }} position="BottomCenter" opensOn="Custom">
            <button className="blocks e-primary e-outline e-btn"
id="tooltipcustom" onDoubleClick={handleDoubleClick.bind(this)}>
                Double Click on Me
            </button>
        </TooltipComponent>
        <TooltipComponent content="Tooltip from focus"
position="BottomCenter">
            <div id="textbox" className="e-float-input blocks">
                <input id="focus" type="text" placeholder="Focus and blur"/>
            </div>
        </TooltipComponent>
    </div>
</div>

```

```

    </div>
  </div>);
}
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  let customTooltip: TooltipComponent = null as any;
  function handleDoubleClick(args: any): void {
    if (args.target.getAttribute("data-tooltip-id")) {
      customTooltip.close();
    } else {
      customTooltip.open(args.target);
    }
  }
  return (
    <div id="showTooltip">
      <div id="first">
        <TooltipComponent
          opensOn="Hover"
          content="Tooltip from hover"
          position="BottomCenter"
        >
          <ButtonComponent
            className="blocks"
            id="tooltiphover"
            cssClass="e-outline"
            isPrimary={true}
          >
            Hover me
          </ButtonComponent>
        </TooltipComponent>
        <TooltipComponent
          opensOn="Click"
          content="Tooltip from click"
          position="BottomCenter"
        >
          <ButtonComponent
            className="blocks"
            id="tooltipclick"
            cssClass="e-outline"
            isPrimary={true}
          >
            Click me
          </ButtonComponent>
        </TooltipComponent>
      </div>
      <br />
      <br />
      <div id="second">

```

```

<TooltipComponent
  content="Click close icon to close me"
  position="BottomCenter"
  isSticky={true}
>
  <ButtonComponent
    className="blocks"
    id="tooltipclick"
    cssClass="e-outline"
    isPrimary={true}
  >
    Sticky mode
  </ButtonComponent>
</TooltipComponent>
<TooltipComponent
  content="Opens and closes Tooltip with delay of <i>1000
milliseconds</i>"
  position="BottomCenter"
  openDelay="1000"
  closeDelay="1000"
>
  <ButtonComponent
    className="blocks"
    id="tooltipclick"
    cssClass="e-outline"
    isPrimary={true}
  >
    Tooltip with delay
  </ButtonComponent>
</TooltipComponent>
</div>
<br />
<br />
<div id="third">
  <TooltipComponent
    content="Tooltip from custom mode"
    ref={tooltip => {
      customTooltip = tooltip as any;
    }}
    position="BottomCenter"
    opensOn="Custom"
  >
    <button
      className="blocks e-primary e-outline e-btn"
      id="tooltipcustom"
      onDoubleClick={handleDoubleClick.bind(this)}
    >
      Double Click on Me
    </button>
  </TooltipComponent>
  <TooltipComponent content="Tooltip from focus"
position="BottomCenter">
    <div id="textbox" className="e-float-input blocks">
      <input id="focus" type="text" placeholder="Focus and blur" />
    </div>
  </TooltipComponent>
</div>

```

```

    </div>
  );
}
export default App;
{% endraw %}

```

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  let customTooltip = null;
  function handleDoubleClick(args) {
    if (args.target.getAttribute('data-tooltip-id')) {
      customTooltip.close();
    }
    else {
      customTooltip.open(args.target);
    }
  }
  return (<div id="showTooltip">
    <div id="first">
      <TooltipComponent opensOn="Hover" content="Tooltip from hover"
position="BottomCenter">
        <ButtonComponent className="blocks" id="tooltiphover" cssClass="e-
outline" isPrimary={true}>
          Hover me
        </ButtonComponent>
      </TooltipComponent>
      <TooltipComponent opensOn="Click" content="Tooltip from click"
position="BottomCenter">
        <ButtonComponent className="blocks" id="tooltipclick" cssClass="e-
outline" isPrimary={true}>
          Click me
        </ButtonComponent>
      </TooltipComponent>
    </div>
    <br />
    <br />
    <div id="second">
      <TooltipComponent content="Click close icon to close me"
position="BottomCenter" isSticky={true}>
        <ButtonComponent className="blocks" id="tooltipclick" cssClass="e-
outline" isPrimary={true}>
          Sticky mode
        </ButtonComponent>
      </TooltipComponent>
      <TooltipComponent content="Opens and closes Tooltip with delay of
<i>1000 milliseconds</i>" position="BottomCenter" openDelay="1000"
closeDelay="1000">
        <ButtonComponent className="blocks" id="tooltipclick" cssClass="e-
outline" isPrimary={true}>
          Tooltip with delay

```

```

        </ButtonComponent>
      </TooltipComponent>
    </div>
    <br />
    <br />
    <div id="third">
      <TooltipComponent content="Tooltip from custom mode" ref={tooltip =>
    {
      customTooltip = tooltip;
    }} position="BottomCenter" opensOn="Custom">
        <button className="blocks e-primary e-outline e-btn"
id="tooltipcustom" onDoubleClick={handleDoubleClick.bind(this)}>
          Double Click on Me
        </button>
      </TooltipComponent>
      <TooltipComponent content="Tooltip from focus"
position="BottomCenter">
        <div id="textbox" className="e-float-input blocks">
          <input id="focus" type="text" placeholder="Focus and blur"/>
        </div>
      </TooltipComponent>
    </div>
  </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
function App() {
  let customTooltip: TooltipComponent = null as any;
  function handleDoubleClick(args): void {
    if (args.target.getAttribute('data-tooltip-id')) {
      customTooltip.close();
    } else {
      customTooltip.open(args.target);
    }
  }
  return (
    <div id="showTooltip">
      <div id="first">
        <TooltipComponent
          opensOn="Hover"
          content="Tooltip from hover"
          position="BottomCenter"
        >
          <ButtonComponent
            className="blocks"
            id="tooltiphover"
            cssClass="e-outline"

```



```

        isPrimary={true}
      >
        Hover me
      </ButtonComponent>
    </TooltipComponent>
    <TooltipComponent
      opensOn="Click"
      content="Tooltip from click"
      position="BottomCenter"
    >
      <ButtonComponent
        className="blocks"
        id="tooltipclick"
        cssClass="e-outline"
        isPrimary={true}
      >
        Click me
      </ButtonComponent>
    </TooltipComponent>
  </div>
<br />
<br />
<div id="second">
  <TooltipComponent
    content="Click close icon to close me"
    position="BottomCenter"
    isSticky={true}
  >
    <ButtonComponent
      className="blocks"
      id="tooltipclick"
      cssClass="e-outline"
      isPrimary={true}
    >
      Sticky mode
    </ButtonComponent>
  </TooltipComponent>
  <TooltipComponent
    content="Opens and closes Tooltip with delay of <i>1000
milliseconds</i>"
    position="BottomCenter"
    openDelay="1000"
    closeDelay="1000"
  >
    <ButtonComponent
      className="blocks"
      id="tooltipclick"
      cssClass="e-outline"
      isPrimary={true}
    >
      Tooltip with delay
    </ButtonComponent>
  </TooltipComponent>
</div>
<br />
<br />
<div id="third">

```

```

    <TooltipComponent
      content="Tooltip from custom mode"
      ref={tooltip => {
        customTooltip = tooltip;
      }}
      position="BottomCenter"
      opensOn="Custom"
    >
      <button
        className="blocks e-primary e-outline e-btn"
        id="tooltipcustom"
        onDoubleClick={handleDoubleClick.bind(this)}
      >
        Double Click on Me
      </button>
    </TooltipComponent>
    <TooltipComponent
      content="Tooltip from focus"
      position="BottomCenter"
    >
      <div id="textbox" className="e-float-input blocks">
        <input id="focus" type="text" placeholder="Focus and blur" />
      </div>
    </TooltipComponent>
  </div>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Fancy tooltip customization in React Tooltip component

The arrow of the tooltip can be customized as needed by customizing CSS in the sample-side.

The EJ2 tooltip component is achieved through CSS3 format and positioned the tip arrow according to the tooltip positions like **TopCenter**, **BottomLeft**, **RightTop**, and more.

Here, the tip arrow is customized as Curved tooltip and Bubble tooltip.

Curved tip

The content for the tip pointer arrow has been added. To customize the curved tip arrow, override the following CSS class of tip arrow.

`ts

```

<TooltipComponent content='Tooltip Content' cssClass='curvetips e-tooltip-css'>
</TooltipComponent>

```

,

`css

```

.e-arrow-tip-outer.e-tip-bottom,
.e-arrow-tip-outer.e-tip-top {

```

```
border-left: none !important;
border-right: none !important;
border-top: none !important;
}
.e-arrow-tip.e-tip-top {
transform: rotate(170deg);
}
,
```

Bubble tip

The two `div`s (inner div and outer div) have been added to achieve the bubble tip arrow. To customize the bubble tip arrow, override the following CSS class of tip arrow.

```
`ts
<TooltipComponent content='Tooltip Content' cssClass='bubbletip e-tooltip-css'>
</TooltipComponent>
,

`css
.e-arrow-tip-outer.e-tip-bottom, .e-arrow-tip-outer.e-tip-top
{
border-radius: 50px;
height: 10px;
width: 10px;
}
.e-arrow-tip-inner.e-tip-bottom, .e-arrow-tip-inner.e-tip-top
{
border-radius: 50px;
height: 10px;
width: 10px;
}
,
```

These tip arrow customizations have been achieved through CSS changes in the sample level. The tooltip position can be changed by using the radio button click event.

The arrow tip pointer can also be disabled by using the [showTipPointer](#) property in a tooltip.

APP.JSX

```
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
```

```

import { ButtonComponent, RadioButtonComponent, } from '@syncfusion/ej2-react-buttons';
function App() {
  let tooltip;
  let bubble;
  function onChange(args) {
    tooltip.position = args.value;
    tooltip.dataBind();
  }
  function onChanged(args) {
    bubble.position = args.value;
    if (bubble.position == "BottomLeft") {
      bubble.offsetY = -30;
    }
    else {
      bubble.offsetY = 0;
    }
    bubble.dataBind();
  }
  return (<div id="container">
    <TooltipComponent cssClass="curvetips e-tooltip-css" content="Tooltip arrow customized" target="#target" ref={d => (tooltip = d)}>
    <TooltipComponent cssClass="bubbletip e-tooltip-css" content="Tooltip arrow customized as balloon tip" target="#bubbletip" position="TopRight" ref={d => (bubble = d)}>
    <TooltipComponent cssClass="pointertip e-tooltip-css" mouseTrail={true} target="#tooltip" content="Disabled tooltip pointer" showTipPointer={false}>
      <div id="customization" className="customTipContainer">
        <ButtonComponent id="target">Customized Tip
      </ButtonComponent>
      <div id="positions">
        <ul>
          <li>
            <RadioButtonComponent id="element1" label="TopCenter" name="default" checked={true} value="TopCenter" change={onChange}/>
          </li>
          <li>
            <RadioButtonComponent id="element2" label="BottomLeft" name="default" value="BottomLeft" change={onChange}/>
          </li>
        </ul>
      </div>
    </div>
    <div id="balloon" className="customTipContainer">
      <ButtonComponent id="bubbletip">Bubble Tip
    </ButtonComponent>
    <div id="btn">
      <ul>
        <li>
          <RadioButtonComponent id="radio1" label="BottomLeft" name="position" value="BottomLeft" change={onChanged}/>
        </li>
        <li>
          <RadioButtonComponent id="radio2" label="TopRight" name="position" value="TopRight" checked={true} change={onChanged}/>
        </li>
      </ul>
    </div>
  </div>

```

```

        </ul>
      </div>
    </div>
    <div id="disabledContainer" className="customTipContainer">
      <ButtonComponent id="tooltip">Disabled Tip
Arrow</ButtonComponent>
    </div>
  </TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</div>);
}
export default App;

```

APP.TSX

```

import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import {
  ButtonComponent,
  RadioButtonComponent,
  ChangeArgs,
} from '@syncfusion/ej2-react-buttons';
function App() {
  let tooltip: TooltipComponent;
  let bubble: TooltipComponent;
  function onChange(args: ChangeArgs): void {
    tooltip.position = args.value as any;
    tooltip.dataBind();
  }
  function onChanged(args: ChangeArgs): void {
    bubble.position = args.value as any;
    if (bubble.position == "BottomLeft") {
      bubble.offsetY = -30;
    } else {
      bubble.offsetY = 0;
    }
    bubble.dataBind();
  }
  return (
    <div id="container">
      <TooltipComponent
        cssClass="curvetips e-tooltip-css"
        content="Tooltip arrow customized"
        target="#target"
        ref={d => (tooltip = d as any)}
      >
      <TooltipComponent
        cssClass="bubbletip e-tooltip-css"
        content="Tooltip arrow customized as balloon tip"
        target="#bubbletip"
        position="TopRight"
        ref={d => (bubble = d as any)}
      >
      <TooltipComponent
        cssClass="pointertip e-tooltip-css"

```

```

        mouseTrail={true}
        target="#tooltip"
        content="Disabled tooltip pointer"
        showTipPointer={false}
    >
    <div id="customization" className="customTipContainer">
        <ButtonComponent id="target">Customized Tip
Arrow</ButtonComponent>
        <div id="positions">
            <ul>
                <li>
                    <RadioButtonComponent
                        id="element1"
                        label="TopCenter"
                        name="default"
                        checked={true}
                        value="TopCenter"
                        change={onChange as any}
                    />
                </li>
                <li>
                    <RadioButtonComponent
                        id="element2"
                        label="BottomLeft"
                        name="default"
                        value="BottomLeft"
                        change={onChange as any}
                    />
                </li>
            </ul>
        </div>
    </div>
    <div id="balloon" className="customTipContainer">
        <ButtonComponent id="bubbletip">Bubble Tip
Arrow</ButtonComponent>
        <div id="btn">
            <ul>
                <li>
                    <RadioButtonComponent
                        id="radio1"
                        label="BottomLeft"
                        name="position"
                        value="BottomLeft"
                        change={onChanged as any}
                    />
                </li>
                <li>
                    <RadioButtonComponent
                        id="radio2"
                        label="TopRight"
                        name="position"
                        value="TopRight"
                        checked={true}
                        change={onChanged as any}
                    />
                </li>
            </ul>
        </div>
    </div>

```

```

        </div>
    </div>
    <div id="disabledContainer" className="customTipContainer">
        <ButtonComponent id="tooltip">Disabled Tip
    Arrow</ButtonComponent>
    </div>
    </TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</div>
);
}
export default App;

```

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { RadioButtonComponent, } from '@syncfusion/ej2-react-buttons';
function App() {
    let tooltip;
    let bubble;
    function onChange(args) {
        tooltip.position = args.value;
        tooltip.dataBind();
    }
    function onChanged(args) {
        bubble.position = args.value;
        if (bubble.position == 'BottomLeft') {
            bubble.offsetY = -30;
        }
        else {
            bubble.offsetY = 0;
        }
        bubble.dataBind();
    }
    return (<div id="container">
        <TooltipComponent cssClass="curvetips e-tooltip-css" content="Tooltip
        arrow customized" target="#target" ref={d => tooltip = d}>
        <TooltipComponent cssClass="bubbletip e-tooltip-css"
        content="Tooltip arrow customized as balloon tip" target="#bubbletip"
        position="TopRight" ref={d => bubble = d}>
        <TooltipComponent cssClass="pointertip e-tooltip-css"
        mouseTrail={true} target="#tooltip" content="Disabled tooltip pointer"
        showTipPointer={false}>
            <div id="customization" className="customTipContainer">
                <button className="e-btn" id="target">
                    Customized Tip Arrow
                </button>
                <div id="positions">
                    <ul>
                        <li>
                            <RadioButtonComponent id="element1" label="TopCenter"
                            name="default" checked={true} value="TopCenter" change={onChange}/>
                        </li>

```

```

        <li>
          <RadioButtonComponent id="element2" label="BottomLeft"
name="default" value="BottomLeft" change={onChange}/>
        </li>
      </ul>
    </div>
  </div>
  <div id="balloon" className="customTipContainer">
    <button className="e-btn" id="bubbletip">
      Bubble Tip Arrow
    </button>
    <div id="btn">
      <ul>
        <li>
          <RadioButtonComponent id="radio1" label="BottomLeft"
name="position" value="BottomLeft" change={onChanged}/>
        </li>
        <li>
          <RadioButtonComponent id="radio2" label="TopRight"
name="position" value="TopRight" checked={true} change={onChanged}/>
        </li>
      </ul>
    </div>
  </div>
  <div id="disabledContainer" className="customTipContainer">
    <button className="e-btn" id="tooltip">
      Disabled Tip Arrow
    </button>
  </div>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import {
  RadioButtonComponent,
  ChangeArgs,
} from '@syncfusion/ej2-react-buttons';
function App() {
  let tooltip: TooltipComponent;
  let bubble: TooltipComponent;
  function onChange(args: ChangeArgs): void {
    tooltip.position = args.value as any;
    tooltip.dataBind();
  }
  function onChanged(args: ChangeArgs): void {
    bubble.position = args.value as any;
    if (bubble.position == 'BottomLeft') {

```



```

        bubble.offsetY = -30;
    } else {
        bubble.offsetY = 0;
    }
    bubble.dataBind();
}
return (
    <div id="container">
        <TooltipComponent
            cssClass="curvetips e-tooltip-css"
            content="Tooltip arrow customized"
            target="#target"
            ref={d => tooltip = d}
        >
            <TooltipComponent
                cssClass="bubbletip e-tooltip-css"
                content="Tooltip arrow customized as balloon tip"
                target="#bubbletip"
                position="TopRight"
                ref={d => bubble = d}
            >
                <TooltipComponent
                    cssClass="pointertip e-tooltip-css"
                    mouseTrail={true}
                    target="#tooltip"
                    content="Disabled tooltip pointer"
                    showTipPointer={false}
                >
                    <div id="customization" className="customTipContainer">
                        <button className="e-btn" id="target">
                            Customized Tip Arrow
                        </button>
                        <div id="positions">
                            <ul>
                                <li>
                                    <RadioButtonComponent
                                        id="element1"
                                        label="TopCenter"
                                        name="default"
                                        checked={true}
                                        value="TopCenter"
                                        change={onChange}
                                    />
                                </li>
                                <li>
                                    <RadioButtonComponent
                                        id="element2"
                                        label="BottomLeft"
                                        name="default"
                                        value="BottomLeft"
                                        change={onChange}
                                    />
                                </li>
                            </ul>
                        </div>
                    </div>
                    <div id="balloon" className="customTipContainer">

```

```

        <button className="e-btn" id="bubbletip">
          Bubble Tip Arrow
        </button>
        <div id="btn">
          <ul>
            <li>
              <RadioButtonComponent
                id="radio1"
                label="BottomLeft"
                name="position"
                value="BottomLeft"
                change={onChanged}
              />
            </li>
            <li>
              <RadioButtonComponent
                id="radio2"
                label="TopRight"
                name="position"
                value="TopRight"
                checked={true}
                change={onChanged}
              />
            </li>
          </ul>
        </div>
        <div id="disabledContainer" className="customTipContainer">
          <button className="e-btn" id="tooltip">
            Disabled Tip Arrow
          </button>
        </div>
      </TooltipComponent>
    </TooltipComponent>
  </TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Display tooltip on svg and canvas elements in React Tooltip component

Tooltip can be displayed on both SVG and Canvas elements. You can directly attach the `<svg>` or `<canvas>` elements to show tooltips on data visualization elements.

SVG

Create the SVG square element and refer to the following code snippet to render the tooltip on SVG square.

```
`ts
```

```
<TooltipComponent content='SVG Square' cssClass='e-tooltip-css' target= '#square'>
```

```
</TooltipComponent>
```

```
,
```

Canvas

Create the canvas circle element and refer to the following code snippet to render the tooltip on Canvas circle.

```
`ts
```

```
<TooltipComponent content='Canvas Circle' cssClass='e-tooltip-css' target= '#circle'>
```

```
</TooltipComponent>
```

[Link to the Video`](#)

APP.JSX

```
{% raw %}
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  React.useEffect(() => {
    componentDidMount();
  }, []);
  let circleRef = null;
  let triRef = null;
  function componentDidMount() {
    const circle = circleRef;
    const tri = triRef;
    let context;
    if (tri.getContext) {
      context = tri.getContext("2d");
      context.beginPath();
      context.moveTo(0, 50);
      context.lineTo(100, 50);
      context.lineTo(50, 0);
      context.fillStyle = "#FDA600";
      context.fill();
    }
    if (circle.getContext) {
      context = circle.getContext("2d");
      let centerX = circle.width / 2;
      let centerY = circle.height / 2;
      let radius = 30;
      context.beginPath();
      context.arc(centerX, centerY, radius, 0, 2 * Math.PI, false);
      context.fillStyle = "#0450C2";
      context.fill();
    }
  }
  return (<div id="container">
    <TooltipComponent content="SVG Ellipse" cssClass="e-tooltip-css"
target="#ellipse">
      <TooltipComponent content="SVG Polyline" cssClass="e-tooltip-css"
target="#polyline">
        <TooltipComponent content="Canvas Circle" cssClass="e-tooltip-css"
target="#circle">
          <TooltipComponent content="Canvas Triangle" cssClass="e-tooltip-
css" target="#triangle">
            <TooltipComponent content="SVG Square" cssClass="e-tooltip-
css" target="#square">
```

```

        <div id="box" className="e-prevent-select">
          <div className="circletool" id="rectShape" style={{ left:
"1%", top: "10%" }}>
            <svg>
              <rect id="square" className="shape" x="50" y="20"
width="50" height="50" style={{
                fill: "#FDA600",
                stroke: "none",
                strokeWidth: "5",
                strokeOpacity: 0.9
              }}/>
            </svg>
          </div>
          <div className="circletool" id="ellipseShape" style={{
top: "65%" }}>
            <svg>
              <ellipse id="ellipse" className="shape" cx="100"
cy="50" rx="20" ry="40" style={{
                fill: "#0450C2",
                stroke: "none",
                strokeWidth: "2"
              }}/>
            </svg>
          </div>
          <div className="circletool" id="polyShape" style={{ top:
"25%", left: "40%", position: "absolute" }}>
            <svg>
              <polyline id="polyline" className="shape" points="0,40
40,40 40,80 80,80 80,120 120,120 120,160" style={{
                fill: "ffffff",
                stroke: "#0450C2",
                strokeWidth: "4"
              }}/>
            </svg>
          </div>
          <div className="circletool" id="circleShape" style={{ top:
"16%", left: "72%", position: "absolute" }}>
            <canvas id="circle" ref={(circle) => (circleRef =
circle)} className="shape" width="60" height="60"/>
          </div>
          <div className="circletool" id="triShape" style={{ top:
"73%", left: "76%" }}>
            <canvas id="triangle" ref={(tri) => (triRef = tri)}
className="shape" width="100" height="50"/>
          </div>
        </div>
      </TooltipComponent>
    </TooltipComponent>
  </TooltipComponent>
</div>);
}
export default App;
{% enddraw %}

```

APP.TSX

```
{% raw %}
import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import {
  ButtonComponent,
  RadioButtonComponent,
  ChangeArgs,
} from '@syncfusion/ej2-react-buttons';
function App() {
  React.useEffect(() => {
    componentDidMount();
  }, [])
  let circleRef = null;
  let triRef = null;
  function componentDidMount() {
    const circle: any = circleRef;
    const tri: any = triRef;
    let context;
    if (tri.getContext) {
      context = tri.getContext("2d");
      context.beginPath();
      context.moveTo(0, 50);
      context.lineTo(100, 50);
      context.lineTo(50, 0);
      context.fillStyle = "#FDA600";
      context.fill();
    }
    if (circle.getContext) {
      context = circle.getContext("2d");
      let centerX: number = circle.width / 2;
      let centerY: number = circle.height / 2;
      let radius: number = 30;
      context.beginPath();
      context.arc(centerX, centerY, radius, 0, 2 * Math.PI, false);
      context.fillStyle = "#0450C2";
      context.fill();
    }
  }
  return (
    <div id="container">
      <TooltipComponent content="SVG Ellipse" cssClass="e-tooltip-css"
target="#ellipse">
        <TooltipComponent content="SVG Polyline" cssClass="e-tooltip-css"
target="#polyline">
          <TooltipComponent
            content="Canvas Circle"
            cssClass="e-tooltip-css"
            target="#circle"
          >
            <TooltipComponent
              content="Canvas Triangle"
              cssClass="e-tooltip-css"
              target="#triangle"
            >
              <TooltipComponent
```

```

        content="SVG Square"
        cssClass="e-tooltip-css"
        target="#square"
    >
    <div id="box" className="e-prevent-select">
        <div
            className="circletool"
            id="rectShape"
            style={{ left: "1%", top: "10%" }}
        >
            <svg>
                <rect
                    id="square"
                    className="shape"
                    x="50"
                    y="20"
                    width="50"
                    height="50"
                    style={{
                        fill: "#FDA600",
                        stroke: "none",
                        strokeWidth: "5",
                        strokeOpacity: 0.9
                    }}
                />
            </svg>
        </div>
        <div className="circletool" id="ellipseShape" style={{
top: "65%" }}>
            <svg>
                <ellipse
                    id="ellipse"
                    className="shape"
                    cx="100"
                    cy="50"
                    rx="20"
                    ry="40"
                    style={{
                        fill: "#0450C2",
                        stroke: "none",
                        strokeWidth: "2"
                    }}
                />
            </svg>
        </div>
        <div
            className="circletool"
            id="polyShape"
            style={{ top: "25%", left: "40%", position: "absolute"
}}
        >
            <svg>
                <polyline
                    id="polyline"
                    className="shape"
                    points="0,40 40,40 40,80 80,80 80,120 120,120
120,160"

```

```

        style={{
          fill: "#ffffff",
          stroke: "#0450C2",
          strokeWidth: "4"
        }}
      />
    </svg>
  </div>
  <div
    className="circletool"
    id="circleShape"
    style={{ top: "16%", left: "72%", position: "absolute"
  }}
  >
    <canvas
      id="circle"
      ref={(circle) => ((circleRef as any) = circle )}
      className="shape"
      width="60"
      height="60"
    />
  </div>
  <div
    className="circletool"
    id="triShape"
    style={{ top: "73%", left: "76%" }}
  >
    <canvas
      id="triangle"
      ref={(tri) => ((triRef as any) = tri)}
      className="shape"
      width="100"
      height="50"
    />
  </div>
</div>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</div>
);
}
export default App;
{% endraw %}

```

INDEX.JSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
function App() {
  React.useEffect(() => {
    componentDidMount();
  });
}

```

```

    }, []);
    let circleRef = null;
    let triRef = null;
    function componentDidMount() {
      const circle = circleRef;
      const tri = triRef;
      let context;
      if (tri.getContext) {
        context = tri.getContext("2d");
        context.beginPath();
        context.moveTo(0, 50);
        context.lineTo(100, 50);
        context.lineTo(50, 0);
        context.fillStyle = "#FDA600";
        context.fill();
      }
      if (circle.getContext) {
        context = circle.getContext("2d");
        let centerX = circle.width / 2;
        let centerY = circle.height / 2;
        let radius = 30;
        context.beginPath();
        context.arc(centerX, centerY, radius, 0, 2 * Math.PI, false);
        context.fillStyle = "#0450C2";
        context.fill();
      }
    }
    return (<div id="container">
      <TooltipComponent content="SVG Ellipse" cssClass="e-tooltip-css"
        target="#ellipse">
        <TooltipComponent content="SVG Polyline" cssClass="e-tooltip-css"
          target="#polyline">
          <TooltipComponent content="Canvas Circle" cssClass="e-tooltip-css"
            target="#circle">
            <TooltipComponent content="Canvas Triangle" cssClass="e-tooltip-
              css" target="#triangle">
              <TooltipComponent content="SVG Square" cssClass="e-tooltip-
                css" target="#square">
                <div id="box" className="e-prevent-select">
                  <div className="circletool" id="rectShape" style={{ left:
                    "1%", top: "10%" }}>
                    <svg>
                      <rect id="square" className="shape" x="50" y="20"
                        width="50" height="50" style={{
                          fill: "#FDA600",
                          stroke: "none",
                          strokeWidth: "5",
                          strokeOpacity: 0.9
                        }}/>
                    </svg>
                  </div>
                  <div className="circletool" id="ellipseShape" style={{
                    top: "65%" }}>
                    <svg>
                      <ellipse id="ellipse" className="shape" cx="100"
                        cy="50" rx="20" ry="40" style={{
                          fill: "#0450C2",

```



```

        stroke: "none",
        strokeWidth: "2"
    }}/>
    </svg>
  </div>
  <div className="circletool" id="polyShape" style={{ top:
"25%", left: "40%", position: "absolute" }}>
    <svg>
      <polyline id="polyline" className="shape" points="0,40
40,40 40,80 80,80 80,120 120,120 120,160" style={{
        fill: "#ffffff",
        stroke: "#0450C2",
        strokeWidth: "4"
      }}/>
    </svg>
  </div>
  <div className="circletool" id="circleShape" style={{ top:
"16%", left: "72%", position: "absolute" }}>
    <canvas id="circle" ref={(circle) => (circleRef =
circle)} className="shape" width="60" height="60"/>
  </div>
  <div className="circletool" id="triShape" style={{ top:
"73%", left: "76%" }}>
    <canvas id="triangle" ref={(tri) => (triRef = tri)}
className="shape" width="100" height="50"/>
  </div>
</div>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import {
  ButtonComponent,
  RadioButtonComponent,
  ChangeArgs,
} from '@syncfusion/ej2-react-buttons';
function App() {
  React.useEffect(() => {
    componentDidMount();
  }, [])
  let circleRef = null;
  let triRef = null;
  function componentDidMount() {

```

```

const circle: any = circleRef;
const tri: any = triRef;
let context;
if (tri.getContext) {
  context = tri.getContext("2d");
  context.beginPath();
  context.moveTo(0, 50);
  context.lineTo(100, 50);
  context.lineTo(50, 0);
  context.fillStyle = "#FDA600";
  context.fill();
}
if (circle.getContext) {
  context = circle.getContext("2d");
  let centerX: number = circle.width / 2;
  let centerY: number = circle.height / 2;
  let radius: number = 30;
  context.beginPath();
  context.arc(centerX, centerY, radius, 0, 2 * Math.PI, false);
  context.fillStyle = "#0450C2";
  context.fill();
}
}
return (
  <div id="container">
    <TooltipComponent content="SVG Ellipse" cssClass="e-tooltip-css"
target="#ellipse">
      <TooltipComponent content="SVG Polyline" cssClass="e-tooltip-css"
target="#polyline">
        <TooltipComponent
          content="Canvas Circle"
          cssClass="e-tooltip-css"
          target="#circle"
        >
        <TooltipComponent
          content="Canvas Triangle"
          cssClass="e-tooltip-css"
          target="#triangle"
        >
        <TooltipComponent
          content="SVG Square"
          cssClass="e-tooltip-css"
          target="#square"
        >
        <div id="box" className="e-prevent-select">
          <div
            className="circletool"
            id="rectShape"
            style={{ left: "1%", top: "10%" }}
          >
            <svg>
              <rect
                id="square"
                className="shape"
                x="50"
                y="20"
                width="50"

```

```

        height="50"
        style={{
            fill: "#FDA600",
            stroke: "none",
            strokeWidth: "5",
            strokeOpacity: 0.9
        }}
    />
</svg>
</div>
<div className="circletool" id="ellipseShape" style={{
top: "65%" }}>
    <svg>
        <ellipse
            id="ellipse"
            className="shape"
            cx="100"
            cy="50"
            rx="20"
            ry="40"
            style={{
                fill: "#0450C2",
                stroke: "none",
                strokeWidth: "2"
            }}
        />
    </svg>
</div>
<div
    className="circletool"
    id="polyShape"
    style={{ top: "25%", left: "40%", position: "absolute"
}}
>
    <svg>
        <polyline
            id="polyline"
            className="shape"
            points="0,40 40,40 40,80 80,80 80,120 120,120
120,160"

            style={{
                fill: "ffffff",
                stroke: "#0450C2",
                strokeWidth: "4"
            }}
        />
    </svg>
</div>
<div
    className="circletool"
    id="circleShape"
    style={{ top: "16%", left: "72%", position: "absolute"
}}
>
    <canvas
        id="circle"
        ref={(circle) => ((circleRef as any) = circle )}

```

```

        className="shape"
        width="60"
        height="60"
      />
    </div>
    <div
      className="circletool"
      id="triShape"
      style={{ top: "73%", left: "76%" }}
    >
      <canvas
        id="triangle"
        ref={(tri) => ((triRef as any) = tri)}
        className="shape"
        width="100"
        height="50"
      />
    </div>
  </div>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% enddraw %}

```

Create and show tooltip on multiple targets in React Tooltip component

Tooltip can be created and shown on multiple targets within a container by defining the specific target elements to the target property. So, the tooltip is initialized only on matched targets within a container.

APP.JSX

```

import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Ajax } from '@syncfusion/ej2-base';
function App() {
  let tooltip = null;
  function beforeRender(args) {
    tooltip.content = "Loading...";
    tooltip.dataBind();
    let ajax = new Ajax("./tooltip.json", "GET", true);
    ajax.send().then((result) => {
      result = JSON.parse(result);
      for (let i = 0; i < result.length; i++) {
        if (result[i].Id == args.target.id) {
          /* tslint:disable */
          tooltip.content = result[i].Name;
          /* tslint:enable */
        }
      }
    });
    tooltip.dataBind();
  }
}

```

```

    }, (reason) => {
        tooltip.content = reason.message;
        tooltip.dataBind();
    });
}
return (<div id="container">
    <TooltipComponent beforeRender={beforeRender.bind(this)}
    content="Loading..." target=".circletool" position="BottomCenter"
    showTipPointer={false} ref={i => (tooltip = i)}>
        <h2> Dynamic Tooltip content </h2>
        <div id="box" className="e-prevent-select">
            <div id="1" className="circletool bold-01"/>
            <div id="2" className="circletool italic"/>
            <div id="3" className="circletool underline-02"/>
            <div id="4" className="circletool cut-02"/>
            <div id="5" className="circletool copy"/>
            <div id="6" className="circletool paste"/>
        </div>
    </TooltipComponent>
</div>);
}
export default App;

```

APP.TSX

```

import * as React from 'react';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Ajax } from '@syncfusion/ej2-base';
import {
    ButtonComponent,
    RadioButtonComponent,
    ChangeArgs,
} from '@syncfusion/ej2-react-buttons';
function App() {
    let tooltip: TooltipComponent = null as any;
    function beforeRender(args: any) {
        tooltip.content = "Loading...";
        tooltip.dataBind();
        let ajax: Ajax = new Ajax("./tooltip.json", "GET", true);
        ajax.send().then(
            (result: any) => {
                result = JSON.parse(result);
                for (let i: number = 0; i < result.length; i++) {
                    if (result[i].Id == args.target.id) {
                        /* tslint:disable */
                        tooltip.content = result[i].Name;
                        /* tslint:enable */
                    }
                }
                tooltip.dataBind();
            },
            (reason: any) => {
                tooltip.content = reason.message;
                tooltip.dataBind();
            }
        );
    };
}

```

```

    }
    return (
      <div id="container">
        <TooltipComponent
          beforeRender={beforeRender.bind(this)}
          content="Loading..."
          target=".circletool"
          position="BottomCenter"
          showTipPointer={false}
          ref={i => (tooltip = i as any)}
        >
          <h2> Dynamic Tooltip content </h2>
          <div id="box" className="e-prevent-select">
            <div id="1" className="circletool bold-01" />
            <div id="2" className="circletool italic" />
            <div id="3" className="circletool underline-02" />
            <div id="4" className="circletool cut-02" />
            <div id="5" className="circletool copy" />
            <div id="6" className="circletool paste" />
          </div>
        </TooltipComponent>
      </div>
    );
  }
}
export default App;

```

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Ajax } from '@syncfusion/ej2-base';
function App() {
  let tooltip = null;
  function beforeRender(args) {
    tooltip.content = "Loading...";
    tooltip.dataBind();
    let ajax = new Ajax("./tooltip.json", "GET", true);
    ajax.send().then((result) => {
      result = JSON.parse(result);
      for (let i = 0; i < result.length; i++) {
        if (result[i].Id == args.target.id) {
          /* tslint:disable */
          tooltip.content = result[i].Name;
          /* tslint:enable */
        }
      }
      tooltip.dataBind();
    }, (reason) => {
      tooltip.content = reason.message;
      tooltip.dataBind();
    });
  }
  return (<div id="container">

```

```

    <TooltipComponent beforeRender={beforeRender.bind(this) }
    content="Loading..." target=".circletool" position="BottomCenter"
    showTipPointer={false} ref={i => (tooltip = i)}>
      <h2> Dynamic Tooltip content </h2>
      <div id="box" className="e-prevent-select">
        <div id="1" className="circletool bold-01"/>
        <div id="2" className="circletool italic"/>
        <div id="3" className="circletool underline-02"/>
        <div id="4" className="circletool cut-02"/>
        <div id="5" className="circletool copy"/>
        <div id="6" className="circletool paste"/>
      </div>
    </TooltipComponent>
  </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TooltipComponent } from '@syncfusion/ej2-react-popups';
import { Ajax } from '@syncfusion/ej2-base';
import {
  ButtonComponent,
  RadioButtonComponent,
  ChangeArgs,
} from '@syncfusion/ej2-react-buttons';
function App() {
  let tooltip: TooltipComponent = null as any;
  function beforeRender(args: any) {
    tooltip.content = "Loading...";
    tooltip.dataBind();
    let ajax: Ajax = new Ajax("./tooltip.json", "GET", true);
    ajax.send().then(
      (result: any) => {
        result = JSON.parse(result);
        for (let i: number = 0; i < result.length; i++) {
          if (result[i].Id == args.target.id) {
            /* tslint:disable */
            tooltip.content = result[i].Name;
            /* tslint:enable */
          }
        }
        tooltip.dataBind();
      },
      (reason: any) => {
        tooltip.content = reason.message;
        tooltip.dataBind();
      }
    );
  }
  return (
    <div id="container">
      <TooltipComponent

```

```

    beforeRender={beforeRender.bind(this)}
    content="Loading..."
    target=".circletool"
    position="BottomCenter"
    showTipPointer={false}
    ref={i => (tooltip = i as any)}
  >
    <h2> Dynamic Tooltip content </h2>
    <div id="box" className="e-prevent-select">
      <div id="1" className="circletool bold-01" />
      <div id="2" className="circletool italic" />
      <div id="3" className="circletool underline-02" />
      <div id="4" className="circletool cut-02" />
      <div id="5" className="circletool copy" />
      <div id="6" className="circletool paste" />
    </div>
  </TooltipComponent>
</div>
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

TOOLTIP.JSX

```

[
  {
    "Id": "1",
    "Name": "Bold"
  },
  {
    "Id": "2",
    "Name": "Italic"
  },
  {
    "Id": "3",
    "Name": "Underline"
  },
  {
    "Id": "4",
    "Name": "Cut"
  },
  {
    "Id": "5",
    "Name": "Copy"
  },
  {
    "Id": "6",
    "Name": "Paste"
  }
];

```


TreeGrid

Getting Started

Getting started

This section explains the steps required to create a simple Essential JS 2 TreeGrid and demonstrates the basic usage of the TreeGrid control in a React application.

To get start quickly with React Tree Grid, you can check on this video:

[Setup for Local Development](#)

You can use [create-react-app](#) to setup the applications.

To install **create-react-app** run the following command.

`

```
npm install -g create-react-app
```

`

- To setup basic **React** sample use following commands.

`

```
create-react-app quickstart --template typescript
```

```
cd quickstart
```

```
npm install
```

`

[Adding Syncfusion TreeGrid packages](#)

All the available Essential JS 2 packages are published in [npmjs.com](https://www.npmjs.com) public registry. To install TreeGrid component, use the following command

`

```
npm install @syncfusion/ej2-react-treegrid --save
```

`

[Adding CSS reference](#)

Add components style as given below in **src/App.css**.

```
`css
```

```
@import '../node_modules/@syncfusion/ej2-base/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-buttons/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-calendars/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-dropdowns/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-inputs/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-navigations/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-popups/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-splitbuttons/styles/material.css';
@import '../node_modules/@syncfusion/ej2-grids/styles/material.css';
@import '../node_modules/@syncfusion/ej2-react-treegrid/styles/material.css';
`
```

To refer **App.css** in the application then import it in the **src/App.tsx** file.

Adding TreeGrid component

Now, you can start adding TreeGrid component in the application. For getting started, add the TreeGrid component in **src/App.tsx** file using following code.

Place the following treegrid code in the **src/App.tsx**.

```
`ts
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1} childMapping= 'subtasks'>
    <ColumnsDirective>
      <ColumnDirective field='Category' headerText='Category' width='150' />
      <ColumnDirective field='orderName' headerText='Order Name' width='170' />
      <ColumnDirective field='orderDate' headerText='Order Date' width='130' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='price' headerText='Price' width='100' textAlign='Right' type='number' format='C0' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;
`
```

Module Injection

TreeGrid component features are segregated into individual feature-wise modules. In order to use a particular feature, you need to inject its feature service in the **App**. In the current application, we are going to use paging, sorting, filtering and exporting feature of TreeGrid. Please find relevant feature service name and description as follows.

- **Page** - Inject this service to use paging feature.
- **Sort** - Inject this service to use sorting feature.
- **Filter** - Inject this service to use filtering feature.

- **ExcelExport** - Inject this service to use Excel Export feature.
- **PdfExport** - Inject this service to use PDF Export feature.

These modules should be injected into the treegrid using the **Inject** directive.

Additional feature modules are available [here](#).

Enable Paging

The paging feature enables users to view the TreeGrid record in a paged view. It can be enabled by setting [allowPaging](#) property to true. Inject the **Page** module in **Inject.services** as follows. If the **Page** service is not injected, the pager will not be rendered in the treegrid. Pager can be customized using [pageSettings](#) property.

We also have Root level paging mode in which paging is based on the root level rows only i.e., it ignores the child rows count and it can be enabled by using the [pageSettings.pageSizeMode](#) property.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Page, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
  const pageOptions = { pageSize: 2 };
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true}>
    <ColumnsDirective>
      <ColumnDirective field='Category' headerText='Category'
width='150' />
      <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
      <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, PageSettingsModel,
 TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Page, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
  const pageOptions: PageSettingsModel = { pageSize: 2 };
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping= 'subtasks'
      allowPaging={true}>
    <ColumnsDirective>
```

```

        <ColumnDirective field='Category' headerText='Category'
width='150' />
        <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
        <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter]} />
</TreeGridComponent>
};
export default App;

```

DATA.JSX

```

export let sortData = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.42',
    price: 134,
    Category: 'Seafoods',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
      { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
        orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
      { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
        orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
      { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edible', units: '125',
        orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
      { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
    ]
  },
  {
    orderID: '2',
    orderName: 'Order 2',
    orderDate: new Date('01/10/2018'),
    shippedDate: new Date('01/16/2018'),
    units: '1944',
    unitPrice: '58.45',

```

```

        price: 212,
        Category: 'products',
        subtasks: [
            { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
                orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
            { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
            { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
                orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
            { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
                orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
            { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
                orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
        ]
    },
    {
        orderID: '3',
        orderName: 'Order 3',
        orderDate: new Date('09/10/2018'),
        shippedDate: new Date('09/20/2018'),
        units: '1120',
        unitPrice: '33.45',
        price: 109,
        Category: 'Crystals',
        subtasks: [
            { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
                orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
            { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
                orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
            { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
crystals', units: '254',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
        ]
    }
];
export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,

```

```

        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',

```

```

        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
                    ]
                },
            ]
        },
        {
            taskID: 21,
            taskName: 'Phase 2',
            startDate: new Date('02/17/2017'),

```

```

        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',

```



```

        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
        ]
    }
}
]
];

```

DATA.TSX

```

export let sortData: Object[] = [
    {
        orderID: '1',
        orderName: 'Order 1',
        orderDate: new Date('02/03/2017'),
        shippedDate: new Date('02/09/2017'),
        units: '1395',
        unitPrice: '47.42',
        price: 134,
        Category: 'Seafoods',
        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
            orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
            { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
            orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
        ]
    }
]

```

```

        { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
          orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
        { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edeble', units: '125',
          orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
        { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edeble', units: '223',
          orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
      ]
    },
    {
      orderID: '2',
      orderName: 'Order 2',
      orderDate: new Date('01/10/2018'),
      shippedDate: new Date('01/16/2018'),
      units: '1944',
      unitPrice: '58.45',
      price: 212,
      Category: 'products',
      subtasks: [
        { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
          orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
        { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
          orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
        { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
          orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
          orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
        { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
          orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
      ]
    },
    {
      orderID: '3',
      orderName: 'Order 3',
      orderDate: new Date('09/10/2018'),
      shippedDate: new Date('09/20/2018'),
      units: '1120',
      unitPrice: '33.45',
      price: 109,
      Category: 'Crystals',
      subtasks: [

```

```

        { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
        crystals',
          orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
        { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
        Category: 'Solid crystals',
          orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
        { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
        crystals', units: '254',
          orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
      ]
    }
  ];
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),

```

```

        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
                duration: 11,
                progress: 10,
                approved: false,
                subtasks: [
                    { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                    { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },

```

```

        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),

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        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
    ]
    }]
},
{
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
        ]
    }
    ]
}
]
}

```

```
];
```

Enable Sorting

The sorting feature enables you to order the records. It can be enabled by setting the [allowSorting](#) property as *true*. Inject the **Sort** module in the **Inject.services** as follows. If the **Sort** module is not injected, you cannot sort when a header is clicked. Sorting feature can be customized using [sortSettings](#) property.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Page, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
  const pageOptions = { pageSize: 7 };
  const sortingOptions = {
    columns: [
      { field: 'Category', direction: 'Ascending' },
      { field: 'orderName', direction: 'Ascending' }
    ]
  };
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} allowSorting={true}
  sortSettings={sortingOptions}>
    <ColumnsDirective>
      <ColumnDirective field='Category' headerText='Category'
width='150' />
      <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
      <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, PageSettingsModel,
 TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Page, Sort, SortSettingsModel } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
  const pageOptions: PageSettingsModel = { pageSize: 7 };
  const sortingOptions: SortSettingsModel = {
    columns: [
      { field: 'Category', direction: 'Ascending' },

```

```

        { field: 'orderName', direction: 'Ascending' }
    ]
};
return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
childMapping= 'subtasks'
    allowPaging={true} allowSorting={true}
sortSettings={sortingOptions}>
    <ColumnsDirective>
        <ColumnDirective field='Category' headerText='Category'
width='150' />
        <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
        <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter]} />
</TreeGridComponent>
};
export default App;

```

DATA.JSX

```

export let sortData = [
    {
        orderID: '1',
        orderName: 'Order 1',
        orderDate: new Date('02/03/2017'),
        shippedDate: new Date('02/09/2017'),
        units: '1395',
        unitPrice: '47.42',
        price: 134,
        Category: 'Seafoods',
        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
                orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
            { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
                orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
            { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
                orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
            { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edible', units: '125',
                orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
            { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edible', units: '223',
                orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
        ]
    }
]

```



```

    },
    {
        orderID: '2',
        orderName: 'Order 2',
        orderDate: new Date('01/10/2018'),
        shippedDate: new Date('01/16/2018'),
        units: '1944',
        unitPrice: '58.45',
        price: 212,
        Category: 'products',
        subtasks: [
            { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
                orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
            { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
            { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
                orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
            { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
                orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
            { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
                orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
        ]
    },
    {
        orderID: '3',
        orderName: 'Order 3',
        orderDate: new Date('09/10/2018'),
        shippedDate: new Date('09/20/2018'),
        units: '1120',
        unitPrice: '33.45',
        price: 109,
        Category: 'Crystals',
        subtasks: [
            { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
                orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
            { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
                orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
            { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
crystals', units: '254',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
        ]
    }
}

```

```

];
export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
      { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
    ]
  }
];

```

```

        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
              { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
              { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
              { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),

```

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                                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
                                ]
                                }]
                                },
                                {
                                    taskID: 21,
                                    taskName: 'Phase 2',
                                    startDate: new Date('02/17/2017'),
                                    endDate: new Date('02/28/2017'),
                                    priority: 'High',
                                    approved: false,
                                    duration: 12,
                                    progress: 60,
                                    subtasks: [{
                                        taskID: 22,
                                        taskName: 'Implementation Module 2',
                                        startDate: new Date('02/17/2017'),
                                        endDate: new Date('02/28/2017'),
                                        priority: 'Critical',
                                        approved: false,
                                        duration: 12,
                                        progress: 90,
                                        subtasks: [
                                            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                                            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                                            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                                            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                                            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                                            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
                                        ]
                                    }]
                                },
                                {
                                    taskID: 29,
                                    taskName: 'Phase 3',
                                    startDate: new Date('02/17/2017'),
                                    endDate: new Date('02/27/2017'),
                                    priority: 'Normal',

```

```

        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}
];

```

DATA.TSX

```

export let sortData: Object[] = [
    {
        orderID: '1',
        orderName: 'Order 1',
        orderDate: new Date('02/03/2017'),
        shippedDate: new Date('02/09/2017'),
        units: '1395',
        unitPrice: '47.42',
        price: 134,
        Category: 'Seafoods',
    }
];

```

```

        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
              orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
            { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
              orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
            { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
              orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
            { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edeble', units: '125',
              orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
            { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edeble', units: '223',
              orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
        ]
    },
    {
        orderID: '2',
        orderName: 'Order 2',
        orderDate: new Date('01/10/2018'),
        shippedDate: new Date('01/16/2018'),
        units: '1944',
        unitPrice: '58.45',
        price: 212,
        Category: 'products',
        subtasks: [
            { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
              orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
            { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
              orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
            { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
              orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
            { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
              orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
            { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
              orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
        ]
    },
    {
        orderID: '3',

```

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        orderName: 'Order 3',
        orderDate: new Date('09/10/2018'),
        shippedDate: new Date('09/20/2018'),
        units: '1120',
        unitPrice: '33.45',
        price: 109,
        Category: 'Crystals',
        subtasks: [
            { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
            orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
            { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
            orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
            { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
crystals', units: '254',
            orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
        ]
    }
];
export let sampleData: Object[] = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
            endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),

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        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [

```



```

        { taskID: 15, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
  progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
  progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
  Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
  progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
  Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
  progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
  startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
  progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
  startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
  progress: '50', priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
  progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
  progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
  Date('02/21/2017'),
            endDate: new Date('02/21/2017'), duration: 0,
  progress: '0', priority: 'Normal', approved: false }
      ]
    }
  ]
}

```

```

        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            ]
        }
    ]
    }
]

```

```

        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
        progress: '50', priority: 'Critical', approved: false },
      ]
    }
  ]
}
];

```

Enable Filtering

The filtering feature enables you to view reduced amount of records based on filter criteria. It can be enabled by setting the [allowFiltering](#) property as true. Inject the **Filter** module in the **Inject.services** as follows. If **Filter** module is not injected, filter bar will not be rendered in TreeGrid. Filtering feature can be customized using [filterSettings](#) property.

By default, filtered records are shown along with its parent records. This behavior can be changed by using [filterSettings-hierarchyMode](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Page, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
  const pageOptions = { pageSize: 7 };
  const sortingOptions = {
    columns: [
      { field: 'Category', direction: 'Ascending' },
      { field: 'orderName', direction: 'Ascending' }
    ]
  };
  const filterSettings = { columns: [
    { field: 'price', operator: 'lessthan', value: 40 }
  ] };
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} allowSorting={true}
  allowFiltering={true} filterSettings={filterSettings}
  sortSettings={sortingOptions}>
    <ColumnsDirective>
      <ColumnDirective field='Category' headerText='Category'
width='150' />
      <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
      <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter]} />
  </TreeGridComponent>;
}
;

```

```
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Filter, FilterSettingsModel, Inject, Page, Sort, SortSettingsModel
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
    const pageOptions: PageSettingsModel = { pageSize: 7 };
    const sortingOptions: SortSettingsModel = {
        columns: [
            { field: 'Category', direction: 'Ascending' },
            { field: 'orderName', direction: 'Ascending' }
        ]
    };
    const filterSettings: FilterSettingsModel = { columns: [
        { field: 'price', operator: 'lessthan', value: 40 }
    ] };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
childMapping= 'subtasks'
        allowPaging={true} allowSorting={true} allowFiltering={true}
filterSettings = {filterSettings} sortSettings={sortingOptions}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='150' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter]} />
    </TreeGridComponent>
};
export default App;
```

DATA.JSX

```
export let sortData = [
    {
        orderID: '1',
        orderName: 'Order 1',
        orderDate: new Date('02/03/2017'),
        shippedDate: new Date('02/09/2017'),
        units: '1395',
        unitPrice: '47.42',
        price: 134,
        Category: 'Seafoods',
        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
```

```

        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
        { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
            orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
            { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
                orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
                { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edible', units: '125',
                    orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
                    { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edible', units: '223',
                        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
                ]
            },
        {
            orderID: '2',
            orderName: 'Order 2',
            orderDate: new Date('01/10/2018'),
            shippedDate: new Date('01/16/2018'),
            units: '1944',
            unitPrice: '58.45',
            price: 212,
            Category: 'products',
            subtasks: [
                { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
                    orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
                { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
                    orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
                { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
                    orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
                { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
                    orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
                { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
                    orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
            ]
        },
        {
            orderID: '3',
            orderName: 'Order 3',
            orderDate: new Date('09/10/2018'),
            shippedDate: new Date('09/20/2018'),

```

```

        units: '1120',
        unitPrice: '33.45',
        price: 109,
        Category: 'Crystals',
        subtasks: [
            { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
                orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
            { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
                orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
            { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
crystals', units: '254',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
        ]
    }
];
export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
    }
];

```

```

        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                          endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },

```

```

        { taskID: 16, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
  3, progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate:
  new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
  2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
  new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
  2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
  meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
  2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
  startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
  0, progress: '50', priority: 'Low', approved: true }
      ]
    },
  ],
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration:
  4, progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration:
  4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate:
  new Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration:
  2, progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate:
  new Date('02/25/2017'),

```



```

        endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
    ]
    }
},
{
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
        ]
    }
]
}

```

```

    }
  ]
}
];

```

DATA.TSX

```

export let sortData: Object[] = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.42',
    price: 134,
    Category: 'Seafoods',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
      { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
        orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
      { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
        orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
      { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edible', units: '125',
        orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
      { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
    ],
  },
  {
    orderID: '2',
    orderName: 'Order 2',
    orderDate: new Date('01/10/2018'),
    shippedDate: new Date('01/16/2018'),
    units: '1944',
    unitPrice: '58.45',
    price: 212,
    Category: 'products',
    subtasks: [
      { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
        orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
    ],
  },
];

```

```

        { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
          orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
        { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
          orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
          orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
        { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
          orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
      ]
    },
    {
      orderID: '3',
      orderName: 'Order 3',
      orderDate: new Date('09/10/2018'),
      shippedDate: new Date('09/20/2018'),
      units: '1120',
      unitPrice: '33.45',
      price: 109,
      Category: 'Crystals',
      subtasks: [
        { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
          orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
        { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
          orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
        { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
crystals', units: '254',
          orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
      ]
    }
  ];
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),

```

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        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,

```

```

    subtasks: [
      {
        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
          taskID: 14,
          taskName: 'Implementation Module 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'Normal',
          duration: 11,
          progress: 10,
          approved: false,
          subtasks: [
            { taskID: 15, taskName: 'Development Task 1',
              startDate: new Date('02/17/2017'),
              endDate: new Date('02/19/2017'), duration: 3,
              progress: '50', priority: 'High', approved: false },
            { taskID: 16, taskName: 'Development Task 2',
              startDate: new Date('02/17/2017'),
              endDate: new Date('02/19/2017'), duration: 3,
              progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate: new
              Date('02/20/2017'),
              endDate: new Date('02/21/2017'), duration: 2,
              progress: '0', priority: 'Normal', approved: true },
            { taskID: 18, taskName: 'Bug fix', startDate: new
              Date('02/24/2017'),
              endDate: new Date('02/25/2017'), duration: 2,
              progress: '0', priority: 'Critical', approved: false },
            { taskID: 19, taskName: 'Customer review meeting',
              startDate: new Date('02/26/2017'),
              endDate: new Date('02/27/2017'), duration: 2,
              progress: '0', priority: 'High', approved: false },
            { taskID: 20, taskName: 'Phase 1 complete',
              startDate: new Date('02/27/2017'),
              endDate: new Date('02/27/2017'), duration: 0,
              progress: '50', priority: 'Low', approved: true }
          ]
        }
      ]
    },
    {
      taskID: 21,
      taskName: 'Phase 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'High',
      approved: false,
      duration: 12,
      progress: 60,
      subtasks: [{

```

```

        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),

```

```

        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }
  ]
}
];

```

Run the application

The [create-react-app](#) will pre-configure the project to compile and run the application in browser. Use the following command to run the application.

`

npm start

`

Output will be appears as follows.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Page, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
  const pageOptions = { pageSize: 7 };
  const sortingOptions = {
    columns: [
      { field: 'Category', direction: 'Ascending' },
      { field: 'orderName', direction: 'Ascending' }
    ]
  };
  const filterSettings = { columns: [

```

```

        { field: 'price', operator: 'lessthan', value: 40 }
    ] };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} allowSorting={true}
allowFiltering={true} filterSettings={filterSettings}
sortSettings={sortingOptions}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='150' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Filter, FilterSettingsModel, Inject, Page, Sort, SortSettingsModel
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './data';
function App() {
    const pageOptions: PageSettingsModel = { pageSize: 7 };
    const sortingOptions: SortSettingsModel = {
        columns: [
            { field: 'Category', direction: 'Ascending' },
            { field: 'orderName', direction: 'Ascending' }
        ]
    };
    const filterSettings: FilterSettingsModel = { columns: [
        { field: 'price', operator: 'lessthan', value: 40 }
    ] };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
childMapping= 'subtasks'
        allowPaging={true} allowSorting={true} allowFiltering={true}
filterSettings = {filterSettings} sortSettings={sortingOptions}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='150' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='170' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='130' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='price' headerText='Price' width='100'
textAlign='Right' type='number' format='C0' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter]} />
    </TreeGridComponent>;
}
;
export default App;

```



```

    </TreeGridComponent>
  };
  export default App;

```

DATA.JSX

```

export let sortData = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.42',
    price: 134,
    Category: 'Seafoods',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
seafood', units: '235',
        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.35', price: 28 },
      { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
seafood', units: '324',
        orderDate: new Date('04/05/2017'), shippedDate: new
Date('04/12/2017'), unitPrice: '18.56', price: 25 },
      { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
seafood', units: '488',
        orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.45', price: 52 },
      { orderID: '1.4', orderName: 'Preserved Olives', Category:
'Edible', units: '125',
        orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '19.26', price: 11 },
      { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
    ],
  },
  {
    orderID: '2',
    orderName: 'Order 2',
    orderDate: new Date('01/10/2018'),
    shippedDate: new Date('01/16/2018'),
    units: '1944',
    unitPrice: '58.45',
    price: 212,
    Category: 'products',
    subtasks: [
      { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
        orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
      { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',

```

```

        orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
        { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
        orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
        orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
        { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
        orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
    ]
},
{
    orderID: '3',
    orderName: 'Order 3',
    orderDate: new Date('09/10/2018'),
    shippedDate: new Date('09/20/2018'),
    units: '1120',
    unitPrice: '33.45',
    price: 109,
    Category: 'Crystals',
    subtasks: [
        { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
            orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
        { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
            orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },
        { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
crystals', units: '254',
            orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.23', price: 40 }
    ]
}
];
export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },

```

```

        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {

```

```

        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
                    3, progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
                    3, progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate:
                    new Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration:
                    2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
                    new Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration:
                    2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
                    meeting', startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration:
                    2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                    startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration:
                    0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',

```

```

        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },

```

```

        { taskID: 32, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
  3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate:
  new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
  2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
  new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
  2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
  meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
  2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
  startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
  0, progress: '50', priority: 'Critical', approved: false },
      ]
    }
  ]
}
];

```

DATA.TSX

```

export let sortData: Object[] = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.42',
    price: 134,
    Category: 'Seafoods',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen
  seafood', units: '235',
        orderDate: new Date('03/03/2017'), shippedDate: new
  Date('03/10/2017'), unitPrice: '12.35', price: 28 },
      { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen
  seafood', units: '324',
        orderDate: new Date('04/05/2017'), shippedDate: new
  Date('04/12/2017'), unitPrice: '18.56', price: 25 },
      { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen
  seafood', units: '488',
        orderDate: new Date('05/08/2017'), shippedDate: new
  Date('05/15/2017'), unitPrice: '11.45', price: 52 },
      { orderID: '1.4', orderName: 'Preserved Olives', Category:
  'Edible', units: '125',
        orderDate: new Date('06/10/2017'), shippedDate: new
  Date('06/17/2017'), unitPrice: '19.26', price: 11 },
    ]
  }
];

```

```

        { orderID: '1.5', orderName: 'Sweet corn Frozen', Category:
'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2019'), unitPrice: '17.54', price: 15 }
    ],
    {
        orderID: '2',
        orderName: 'Order 2',
        orderDate: new Date('01/10/2018'),
        shippedDate: new Date('01/16/2018'),
        units: '1944',
        unitPrice: '58.45',
        price: 212,
        Category: 'products',
        subtasks: [
            { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen
seafood',
            orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.26', price: 41 },
            { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen
seafood', units: '560',
            orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '17.26', price: 39 },
            { orderID: '2.3', orderName: 'Fresh Cheese', Category: 'Dairy',
units: '323', unitPrice: '12.67',
            orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 38 },
            { orderID: '2.4', orderName: 'Blue Veined Cheese', Category:
'Dairy', units: '370', unitPrice: '15.25',
            orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 55 },
            { orderID: '2.5', orderName: 'Butter', Category: 'Dairy', units:
'413', unitPrice: '19.25',
            orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 37.17 }
        ]
    },
    {
        orderID: '3',
        orderName: 'Order 3',
        orderDate: new Date('09/10/2018'),
        shippedDate: new Date('09/20/2018'),
        units: '1120',
        unitPrice: '33.45',
        price: 109,
        Category: 'Crystals',
        subtasks: [
            { orderID: '3.1', orderName: 'Lead glassware', Category: 'Solid
crystals',
            orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '16.45', price: 32 },
            { orderID: '3.2', orderName: 'Pharmaceutical Glassware',
Category: 'Solid crystals',
            orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.45', price: 35 },

```

```

        { orderID: '3.3', orderName: 'Glass beads', Category: 'Solid
        crystals', units: '254',
          orderDate: new Date('05/22/2018'), shippedDate: new
        Date('03/22/2018'), unitPrice: '16.23', price: 40 }
      ]
    }
  ];
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
        Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
        Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
        Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
        Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
        Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
        priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
        Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
        new Date('02/13/2017'),

```



```

        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
                duration: 11,
                progress: 10,
                approved: false,
                subtasks: [
                    { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                    { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                    { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                    { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },

```

```

        { taskID: 19, taskName: 'Customer review meeting',
  startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
  progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
  startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
  progress: '50', priority: 'Low', approved: true }
      ]
    },
    {
      taskID: 21,
      taskName: 'Phase 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'High',
      approved: false,
      duration: 12,
      progress: 60,
      subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
          { taskID: 23, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
  progress: '50', priority: 'Normal', approved: true },
          { taskID: 24, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
  progress: '50', priority: 'Critical', approved: true },
          { taskID: 25, taskName: 'Testing', startDate: new
  Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
  progress: '0', priority: 'High', approved: false },
          { taskID: 26, taskName: 'Bug fix', startDate: new
  Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
  progress: '0', priority: 'Low', approved: false },
          { taskID: 27, taskName: 'Customer review meeting',
  startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
  progress: '0', priority: 'Critical', approved: true },
          { taskID: 28, taskName: 'Phase 2 complete',
  startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
  progress: '50', priority: 'Normal', approved: false }
        ]
      }
    ]
  },
}

```

```

    {
      taskID: 29,
      taskName: 'Phase 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 30,
      subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
          { taskID: 31, taskName: 'Development Task 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
            progress: '50', priority: 'Low', approved: true },
          { taskID: 32, taskName: 'Development Task 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
            progress: '50', priority: 'Normal', approved: false },
          { taskID: 33, taskName: 'Testing', startDate: new
            Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
            progress: '0', priority: 'Critical', approved: true },
          { taskID: 34, taskName: 'Bug fix', startDate: new
            Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
            progress: '0', priority: 'High', approved: false },
          { taskID: 35, taskName: 'Customer review meeting',
            startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
            progress: '0', priority: 'Normal', approved: true },
          { taskID: 36, taskName: 'Phase 3 complete',
            startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
            progress: '50', priority: 'Critical', approved: false },
        ]
      }]
    }
  ]
};

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Getting Started with the TreeGrid Component in the Preact Framework

This article provides a step-by-step guide for setting up a [Preact](#) project and integrating the Syncfusion React TreeGrid component.

Preact is a fast and lightweight JavaScript library for building user interfaces. It's often used as an alternative to larger frameworks like React. The key difference is that Preact is designed to be smaller in size and faster in performance, making it a good choice for projects where file size and load times are critical factors.

Prerequisites

[System requirements for Syncfusion React UI components](#)

[Set up the Preact project](#)

To create a new **Preact** project, use one of the commands that are specific to either NPM or Yarn.

```
`bash
```

```
npm init preact
```

```
,
```

or

```
`bash
```

```
yarn init preact
```

```
,
```

Using one of the above commands will lead you to set up additional configurations for the project, as below:

1\ Define the project name: We can specify the name of the project directly. Let's specify the name of the project as **my-project** for this article.

```
`bash
```

```
T Preact - Fast 3kB alternative to React with the same modern API
```

```
|
```

- Project directory:

```
| my-project
```

```
—
```

```
,
```

2\ Choose **JavaScript** as the framework variant to build this Preact project using JavaScript and React.

```
`bash
```

```
T Preact - Fast 3kB alternative to React with the same modern API
```

```
|
```

- Project language:

```
| > JavaScript
|   TypeScript
—
```

```
,
`
```

3\). Then configure the project as below for this article.

```
`bash
```

```
T Preact - Fast 3kB alternative to React with the same modern API
```

```
|
```

- Use router?

```
| Yes / > No
```

```
—
```

```
|
```

- Prerender app (SSG)?

```
| Yes / > No
```

```
—
```

```
|
```

- Use ESLint?

```
| Yes / > No
```

```
—
```

```
,
`
```

5\). Upon completing the aforementioned steps to create `my-project`, run the following command to jump into the project directory:

```
`bash
```

```
cd my-project
```

```
,
`
```

Now that `my-project` is ready to run with default settings, let's add Syncfusion components to the project.

Add the Syncfusion React packages

Syncfusion React component packages are available at [npmjs.com](https://www.npmjs.com). To use Syncfusion React components in the project, install the corresponding npm package.

This article uses the [React TreeGrid component](#) as an example. To use the React TreeGrid component in the project, the `@syncfusion/ej2-react-treegrid` package needs to be installed using the following command:

```
`bash
```

```
npm install @syncfusion/ej2-react-treegrid --save
```

```
,
```

```
or
```

```
`bash
```

```
yarn add @syncfusion/ej2-react-treegrid
```

```
,
```

Import Syncfusion CSS styles

You can import themes for the Syncfusion React component in various ways, such as using CSS or SASS styles from npm packages, CDN, CRG and [Theme Studio](#). Refer to [themes topic](#) to know more about built-in themes and different ways to refer to theme's in a React project.

In this article, the `Material 3` theme is applied using CSS styles, which are available in installed packages. The necessary `Material 3` CSS styles for the TreeGrid component and its dependents were imported into the `src/style.css` file.

~/SRC/STYLE.CSS

```
@import '../node_modules/@syncfusion/ej2-base/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-buttons/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-calendars/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-dropdowns/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-inputs/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-navigations/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-popups/styles/material3.css';
@import '../node_modules/@syncfusion/ej2-splitbuttons/styles/material3.css';
@import "../node_modules/@syncfusion/ej2-grids/styles/material3.css";
@import "../node_modules/@syncfusion/ej2-react-treegrid/styles/material3.css";
```

The order of importing CSS styles should be in line with its dependency graph.

Add the Syncfusion React component

Follow the below steps to add the React TreeGrid component to the Vite project:

1\ Before adding the TreeGrid component to your markup, import the TreeGrid component in the `src/index.jsx` file.

~/SRC/INDEX.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
```

2\ Then, define the TreeGrid component with the [dataSource](#) property and column definitions. Declare the values for the `dataSource` property.

~/SRC/INDEX.JSX

```

import { render } from 'preact';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import './style.css';
function App() {
  let sortData = [
    {
      orderID: '1',
      orderName: 'Order 1',
      orderDate: new Date('02/03/2017'),
      shippedDate: new Date('02/09/2017'),
      units: '1395',
      unitPrice: '47.42',
      price: 134,
      Category: 'Seafoods',
      subtasks: [
        { orderID: '1.1', orderName: 'Mackerel', Category: 'Frozen seafood', units:
          '235',
          orderDate: new Date('03/03/2017'), shippedDate: new Date('03/10/2017'),
          unitPrice: '12.35', price: 28 },
        { orderID: '1.2', orderName: 'Yellowfin Tuna', Category: 'Frozen seafood',
          units: '324',
          orderDate: new Date('04/05/2017'), shippedDate: new Date('04/12/2017'),
          unitPrice: '18.56', price: 25 },
        { orderID: '1.3', orderName: 'Herrings', Category: 'Frozen seafood', units:
          '488',
          orderDate: new Date('05/08/2017'), shippedDate: new Date('05/15/2017'),
          unitPrice: '11.45', price: 52 },
        { orderID: '1.4', orderName: 'Preserved Olives', Category: 'Edible', units:
          '125',
          orderDate: new Date('06/10/2017'), shippedDate: new Date('06/17/2017'),
          unitPrice: '19.26', price: 11 },
        { orderID: '1.5', orderName: 'Sweet corn Frozen', Category: 'Edible', units:
          '223',
          orderDate: new Date('07/12/2017'), shippedDate: new Date('07/19/2019'),
          unitPrice: '17.54', price: 15 }
      ]
    },
    {
      orderID: '2',
      orderName: 'Order 2',
      orderDate: new Date('01/10/2018'),
      shippedDate: new Date('01/16/2018'),
      units: '1944',
      unitPrice: '58.45',
      price: 212,
      Category: 'products',
      subtasks: [
        { orderID: '2.1', orderName: 'Tilapias', Category: 'Frozen seafood',
          orderDate: new Date('02/05/2018'), shippedDate: new Date('02/12/2018'),
          units: '278', unitPrice: '15.26', price: 41 },
        { orderID: '2.2', orderName: 'White Shrimp', Category: 'Frozen seafood',
          units: '560',
          orderDate: new Date('05/22/2018'), shippedDate: new Date('05/29/2018'),
          unitPrice: '17.26', price: 39 },
      ]
    }
  ]
}

```

```

{
  {
    orderID: '2.3',
    orderName: 'Fresh Cheese',
    Category: 'Dairy',
    units: '323',
    unitPrice: '12.67',
    orderDate: new Date('06/08/2018'),
    shippedDate: new Date('06/15/2018'),
    price: 38
  },
  {
    orderID: '2.4',
    orderName: 'Blue Veined Cheese',
    Category: 'Dairy',
    units: '370',
    unitPrice: '15.25',
    orderDate: new Date('07/10/2018'),
    shippedDate: new Date('07/17/2018'),
    price: 55
  },
  {
    orderID: '2.5',
    orderName: 'Butter',
    Category: 'Dairy',
    units: '413',
    unitPrice: '19.25',
    orderDate: new Date('09/18/2018'),
    shippedDate: new Date('09/25/2018'),
    price: 37.17
  }
],
{
  orderID: '3',
  orderName: 'Order 3',
  orderDate: new Date('09/10/2018'),
  shippedDate: new Date('09/20/2018'),
  units: '1120',
  unitPrice: '33.45',
  price: 109,
  Category: 'Crystals',
  subtasks: [
    {
      orderID: '3.1',
      orderName: 'Lead glassware',
      Category: 'Solid crystals',
      orderDate: new Date('02/07/2018'),
      shippedDate: new Date('02/14/2018'),
      units: '542',
      unitPrice: '16.45',
      price: 32
    },
    {
      orderID: '3.2',
      orderName: 'Pharmaceutical Glassware',
      Category: 'Solid crystals',
      orderDate: new Date('04/19/2018'),
      shippedDate: new Date('04/26/2018'),
      units: '324',
      unitPrice: '11.45',
      price: 35
    },
    {
      orderID: '3.3',
      orderName: 'Glass beads',
      Category: 'Solid crystals',
      units: '254',
      orderDate: new Date('05/22/2018'),
      shippedDate: new Date('03/22/2018'),
      unitPrice: '16.23',
      price: 40
    }
  ]
}
];
return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
  childMapping= 'subtasks'>
  <ColumnsDirective>
    <ColumnDirective field='Category' headerText='Category' width='150' />
    <ColumnDirective field='orderName' headerText='Order Name' width='170' />
    <ColumnDirective field='orderDate' headerText='Order Date' width='130'
      format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='price' headerText='Price' width='100'
      textAlign='Right' type='number' format='C0' />
  </ColumnsDirective>
</TreeGridComponent>
</App />, document.querySelector('#app'))

```

Run the project

To run the project, use the following command:

```
`bash
```


npm run dev

,

or

`bash

yarn run dev

,

The output will appear as follows:

Category	Order Name	Order Date	Price
Foodstuffs	Order 1	03/03/2017	\$134
Protein supplement	Whey Protein	03/03/2017	\$25
Protein supplement	Glutamine Fuel	04/03/2017	\$20
Protein supplement	Herbology	04/03/2017	\$50
Misc	Protein and Creatine	07/03/2017	\$51
Books	Smart cars Program	07/03/2017	\$15
products	Order 2	17/03/2018	\$213
Protein supplement	Empire	02/03/2018	\$40
Protein supplement	Weight Building	03/03/2018	\$39
Shoes	Smart Clothing	04/03/2018	\$38
Shoes	Smart Fitness Clothing	07/03/2018	\$39
Shoes	Shoes	07/03/2018	\$37
Shoes	Order 3	07/03/2018	\$139
Shoes (continued)	Smart products	07/03/2018	\$39
Shoes (continued)	Pharmaceutical products	07/03/2018	\$39
Shoes (continued)	Smart shoes	07/03/2018	\$40

See also

[Getting Started with the Syncfusion React UI Component](#)

Data Binding

Data binding in React Treegrid component

The TreeGrid uses [Link to the Video](#), which supports both RESTful JSON data services binding and local JavaScript object array binding. The [dataSource](#) property can be assigned either with the instance of [DataManager](#) or JavaScript object array collection.

It supports two kinds of data binding method:

- Local data
- Remote data

To get start quickly with Data Binding, you can check on this video:

Binding with ajax

You can use TreeGrid [dataSource](#) property to bind the data source to TreeGrid from external Fetch request. In the below code we have fetched the data source from the server with the help of Fetch request and provided that to [dataSource](#) property by using `onSuccess` event of the Fetch.

APP.JSX

```
import { Fetch } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
  const pageOptions = { pageSize: 7 };
  let treegridInstance;
```

```

    const handleClick = () => {
      if (treegridInstance) {
        const fetch = new
Fetch("https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData", "GET");
        treegridInstance.showSpinner();
        const treegrid = treegridInstance;
        fetch.send();
        fetch.onSuccess = (data) => {
          treegrid.hideSpinner();
          treegrid.dataSource = data;
        };
      }
    };
    return (<div className='control-pane'>
      <div className='control-section'>
        <button onClick={handleClick}>Bind Data</button>
        <TreeGridComponent treeColumnIndex={1} idMapping='TaskID'
parentIdMapping='ParentItem' height='210' allowPaging={true}
pageSettings={pageOptions} ref={treegrid => treegridInstance = treegrid}>
          <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
            <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
          </ColumnsDirective>
          <Inject services={[Page]} />
        </TreeGridComponent>
      </div>
    </div>);
  }
;
export default App;

```

APP.TSX

```

import { Fetch } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, TreeGrid, TreeGridComponent }
from '@syncfusion/ej2-react-treegrid';
import { Inject, Page, PageSettingsModel } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
function App() {
  const pageOptions: PageSettingsModel = { pageSize: 7 };
  let treegridInstance: TreeGridComponent | null;
  const handleClick = () => {
    if (treegridInstance) {
      const fetch = new
Fetch("https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData", "GET");
      treegridInstance.showSpinner();
      const treegrid = treegridInstance;

```

```

        fetch.send();
        fetch.onSuccess = (data: object) => {
            treegrid.hideSpinner();
            treegrid.dataSource = data;
        };
    }
}

return (<div className='control-pane'>
    <div className='control-section'>
        <button onClick={handleClick}>Bind Data</button>
        <TreeGridComponent treeColumnIndex={1} idMapping='TaskID'
parentIdMapping='ParentItem' height='210' allowPaging={true}
pageSettings={pageOptions} ref={treegrid =>
treegridInstance=treegrid}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
                <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Page]} />
        </TreeGridComponent>
    </div>
</div>);
};
export default App;

```

If you bind the `dataSource` from this way, then it acts like a local `dataSource`. So you cannot perform any server side crud actions.

Handling `expandStateMapping`

To denotes the expand status of parent row, define the `expandStateMapping` property of tree grid.

The `expandStateMapping` property maps the field name in data source, that denotes whether parent record is in expanded or collapsed state and this is useful to renders parent row in expanded or collapsed state based on this mapping property value in data source.

`ts

```

import { DataManager, UrlAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';

function App() {
    const dataManager: DataManager = new DataManager({
        adaptor: new UrlAdaptor,
        url: "Home/DataSource",

```

```

});
return <TreeGridComponent dataSource={dataManager} treeColumnIndex={1} idMapping= 'TaskID'
parentIdMapping='ParentValue' hasChildMapping='isParent' expandStateMapping='IsExpanded'
height='400'>
<ColumnsDirective>
<ColumnDirective field='TaskID' headerText='Task ID' width='90' textAlign='Right'/>
<ColumnDirective field='TaskName' headerText='Task Name' width='180'/>
<ColumnDirective field='Duration' headerText='Duration' width='80' textAlign='Right' />
</ColumnsDirective>
</TreeGridComponent>
};
export default App;
`

```

The following code example defines `expandStateMapping` property at server end.

```

`ts
public ActionResult ExpandStateMapping()
{
return View();
}
public class TreeData
{
public static List<TreeData> tree = new List<TreeData>();
[System.ComponentModel.DataAnnotations.Key]
public int TaskID { get; set; }
public string TaskName { get; set; }
public int Duration { get; set; }
public int? ParentValue { get; set; }
public bool? isParent { get; set; }
public bool IsExpanded { get; set; }
public TreeData() { }
public static List<TreeData> GetTree()
{
if (tree.Count == 0)

```

```

{
int root = 0;
for (var t = 1; t <= 500; t++)
{
Random ran = new Random();
string math = (ran.Next() % 3) == 0 ? "High" : (ran.Next() % 2) == 0 ? "Release Breaker" : "Critical";
string progr = (ran.Next() % 3) == 0 ? "Started" : (ran.Next() % 2) == 0 ? "Open" : "In Progress";
root++;
int rootItem = root;
tree.Add(new TreeData() { TaskID = rootItem, TaskName = "Parent task " + rootItem.ToString(), isParent
= true, IsExpanded = false, ParentValue = null, Duration = ran.Next(1, 50) });
int parent = root;
for (var d = 0; d < 1; d++)
{
root++;
string value = ((parent + 1) % 3 == 0) ? "Low" : "Critical";
int par = parent + 1;
progr = (ran.Next() % 3) == 0 ? "In Progress" : (ran.Next() % 2) == 0 ? "Open" : "Validated";
int iD = root;
tree.Add(new TreeData() { TaskID = iD, TaskName = "Child task " + iD.ToString(), isParent = true,
IsExpanded = false, ParentValue = rootItem, Duration = ran.Next(1, 50) });
int subparent = root;
for (var c = 0; c < 500; c++)
{
root++;
string val = ((subparent + c + 1) % 3 == 0) ? "Low" : "Critical";
int subchild = subparent + c + 1;
string progress = (ran.Next() % 3) == 0 ? "In Progress" : (ran.Next() % 2) == 0 ? "Open" : "Validated";
int childID = root ;
tree.Add(new TreeData() { TaskID = childID, TaskName = "sub Child task " + childID.ToString(), isParent =
false, IsExpanded = false, ParentValue = subparent, Duration = ran.Next(1, 50) });
}
}
}

```

```

}
return tree;
}
}
`

```

Custom binding

It is possible to handle data processing externally and bind the result to the TreeGrid. This helps you to provide your own custom data logic. TreeGrid expects an object as the result of the custom logic and the emitted value should be an object with properties result and count.

In this context, we are going to use Fetch from our @syncfusion/ej2-base library for handling remote interaction, you can choose any HTTP client as per your choice.

```

`ts
import React, { Component } from 'react';
import { Fetch, getValue } from '@syncfusion/ej2-base';

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, Page, Edit, Sort,
PageSettingsModel, EditSettingsModel, DataStateChangeEventArgs } from '@syncfusion/ej2-react-treegrid';

import { DataResult } from '@syncfusion/ej2-data';

function App() {
  const fetch: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'GET'
  });

  /// this url is just a test url, provide the required url for fetching the data from server.
  const BASE_URL: string = 'http://localhost:51473/api/Tasks';

  const execute = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    return getData(state);
  }

  const getData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    const pageQuery = `skip=${state.skip}&stop=${state.take}`;
    /// filter query for fetching only the root level records
    const treegridQuery = `filter='ParentId eq null'`;

    fetch.url = `${BASE_URL}?${pageQuery}&${treegridQuery}&$inlinecount=allpages&$format=json`;
    return fetch.send().then((response: any) => {

```

```

const data: any = response;
return {
  count: parseInt(getValue('d.count', data), 10),
  result: getValue('d.results', data)
};
});
}

let treegridObj: TreeGridComponent | null | undefined;
const pageSettings: PageSettingsModel = { pageSize: 2, pageSizeMode: 'Root' };
const editSettings: EditSettingsModel = { allowAdding: true, allowDeleting: true, allowEditing: true,
mode: 'Row' };
const getDataSource = () => {
  if(treegridObj && (treegridObj.dataSource instanceof Array
&& !(treegridObj.dataSource as object[]).length)) {
    const state = { skip: 0, take: 2 }; /// take value should always be equal to the pageSize of TreeGrid
    dataStateChange(state);
  }
}

const dataStateChange = (state : any): void => {
  execute(state).then(( treedata ) => {
    if(treegridObj) {
      treegridObj.dataSource = treedata
    }
  });
}

return (
  <div className="App">
    <TreeGridComponent dataSource={[]} dataBound={getDataSource}
    ref={treegrid => treegridObj = treegrid} hasChildMapping='isParent'
    dataStateChange={dataStateChange} id="TreeGrid" idMapping='TaskId' parentIdMapping='ParentId'
    allowPaging={true} treeColumnIndex={1} pageSettings={pageSettings} editSettings={editSettings} >
    <ColumnsDirective>
      <ColumnDirective field='TaskId' headerText='ID' width='70' textAlign='Right'
      isPrimaryKey={true}></ColumnDirective>

```

```

<ColumnDirective field='Task Name' headerText='Name' width='160'></ColumnDirective>
<ColumnDirective field='Duration' headerText='Duration' width='90' textAlign='Right' />
<ColumnDirective field='Progress' headerText='Progress' width='90' textAlign='Right' />
</ColumnsDirective>
<Inject services={[Page, Edit, Sort]} />
</TreeGridComponent>
</div>
);
}
export default App;
`

```

We have a limitation for Custom Binding feature of TreeGrid. This feature works only for Self Referential data binding with `pageSizeMode` as `Root`.

Handling child data

Using the custom binding feature you can bind the child data for a parent record as per your custom logic. When a parent record is expanded, [dataStateChange](#) event is triggered in which you can assign your custom data to the `childData` property of the `dataStateChange`(`../api/treegrid/#datastatechange`) event arguments. After assigning the child data, `childDataBind` method should be called from the [dataStateChange](#) event arguments to indicate that the data is bound.

In this context, initially we have assigned only the parent records to the treegrid `dataSource` and fetched the required child records in the [dataStateChange](#) event.

```

`ts
import React, { Component } from 'react';
import { Fetch, getValue } from '@syncfusion/ej2-base';

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, Page, Edit, Sort,
PageSettingsModel, EditSettingsModel, DataStateChangeEventArgs } from '@syncfusion/ej2-react-treegrid';

import { DataResult } from '@syncfusion/ej2-data';

function App() {
  const fetch: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'GET'
  });

  const BASE_URL: string = 'http://localhost:51473/api/Tasks';

```



```

const execute = (state: DataStateChangeEventArgs): Promise<DataResult> => {
  if (state.requestType === 'expand') {
    return getChildData(state);
  }
  else {
    return getData(state);
  }
}

const getData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
  const pageQuery = `${skip}=${state.skip}&${stop}=${state.take}`;
  /// filter query for fetching only the root level records
  const treegridQuery = "$filter='ParentId eq null'";
  fetch.url = `${BASE_URL}?${pageQuery}&${treegridQuery}&${inlinecount=allpages}&${format=json}`;
  return fetch.send().then((response: any) => {
    const data: any = response;
    return {
      count: parseInt(getValue('d.count', data), 10),
      result: getValue('d.results', data)
    };
  });
}

const getChildData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
  let expandQuery: any;
  if (state.requestType === 'expand') {
    /// filter query for fetching the respective child records
    expandQuery = `${filter}=${'ParentId eq ' + getValue('TaskId', state.data)}`;
  }
  fetch.url = `${BASE_URL}?&${expandQuery}&${inlinecount=allpages}&${format=json}`;
  return fetch.send().then((response: any) => {
    const data: any = response;
    return data;
  });
}

```

```

let treegridObj: TreeGridComponent | null;

const pageSettings: PageSettingsModel = { pageSize: 4, pageSizeMode: 'Root' };

const editSettings: EditSettingsModel = { allowAdding: true, allowDeleting:true, allowEditing: true,
mode: 'Row' };

const getDatasource = (): void => {
if(treegridObj && (treegridObj.dataSource instanceof Array
&& !(treegridObj.dataSource as object[]).length)) {
const state = { skip: 0, take: 4 }; /// take value should always be equal to the pageSize of TreeGrid
dataStateChange(state);
}
}

const dataStateChange = (state : any): void => {
if(state.requestType === 'expand'){
execute(state).then((childData: any) => {
state.childData = childData;
state.childDataBind();
});
} else {
execute(state).then(( treedata ) => {
if(treegridObj) {
treegridObj.dataSource = treedata
}
});
}
}

return (
<div className="App">
<TreeGridComponent dataSource={[]} dataBound={getDatasource}
ref={treegrid => treegridObj = treegrid} hasChildMapping='isParent'
dataStateChange={dataStateChange} id="TreeGrid" idMapping='TaskId' parentIdMapping='ParentId'
allowPaging={true} treeColumnIndex={1} pageSettings={pageSettings} editSettings={editSettings} >
<ColumnsDirective>
<ColumnDirective field='TaskId' headerText='ID' width='70' textAlign='Right'
isPrimaryKey={true}></ColumnDirective>

```

```

<ColumnDirective field='Task Name' headerText='Name' width='160'></ColumnDirective>
<ColumnDirective field='Duration' headerText='Duration' width='90' textAlign='Right' />
<ColumnDirective field='Progress' headerText='Progress' width='90' textAlign='Right' />
</ColumnsDirective>
<Inject services={[Page, Edit, Sort]} />
</TreeGridComponent>
</div>
);
}
export default App;
`

```

Handling Tree Grid actions

For TreeGrid actions such as paging, sorting, etc dataStateChange event will be invoked. You have to query and resolve data using Fetch in this event based on the state arguments.

```

`ts
import React, { Component } from 'react';
import { Fetch, getValue } from '@syncfusion/ej2-base';

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, Page, Edit, Sort,
PageSettingsModel, EditSettingsModel, DataStateChangeEventArgs } from '@syncfusion/ej2-react-treegrid';

import { DataResult } from '@syncfusion/ej2-data';

function App() {
  const fetch: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'GET'
  });

  const BASE_URL: string = 'http://localhost:51473/api/Tasks';

  const execute = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    return getData(state);
  }

  const getData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    const pageQuery = $skip=${state.skip}&$top=${state.take};
    /// filter query for fetching only the root level records

```

```

const treegridQuery = "$filter='ParentId eq null'";
let sortQuery: string = "";
if (state && (state.sorted || []).length) {
  sortQuery = &${orderby}= + ((state).sorted as Sorts[]).map((obj: Sorts) => {
    return obj.direction === 'descending' ? ${obj.name} desc : obj.name;
  }).reverse().join(',');
}
fetch.url =
  ${BASE_URL}?${pageQuery}&${treegridQuery}&${sortQuery}&${inlinecount=allpages}&${format=
  json};
return fetch.send().then((response: any) => {
  const data: any = response;
  return {
    count: parseInt(getValue('d.count', data), 10),
    result: getValue('d.results', data)
  };
});
}
let treegridObj: TreeGridComponent | null;
const pageSettings: PageSettingsModel = { pageSize: 2, pageSizeMode: 'Root' };
const editSettings: EditSettingsModel = { allowAdding: true, allowDeleting: true, allowEditing: true,
mode: 'Row' };
const getDataSource = (): void => {
  if((treegridObj && (treegridObj.dataSource instanceof Array
  && !(treegridObj.dataSource as object[]).length)) {
    const state = { skip: 0, take: 2 }; /// take value should always be equal to the pageSize of TreeGrid
    dataStateChange(state);
  }
}
const dataStateChange = (state : any): void => {
  execute(state).then(( treedata ) => {
    if(treegridObj) {
      treegridObj.dataSource = treedata
    }
  }
}

```

```

});
}
return (
  <div className="App">
    <TreeGridComponent dataSource={[]} dataBound={getDataSource}
      ref={treegrid => treegridObj = treegrid} hasChildMapping='isParent'
      dataStateChange={dataStateChange} id="TreeGrid" idMapping='TaskId' parentIdMapping='ParentId'
      allowPaging={true} treeColumnIndex={1} pageSettings={pageSettings} editSettings={editSettings} >
      <ColumnsDirective>
        <ColumnDirective field='TaskId' headerText='ID' width='70' textAlign='Right'
          isPrimaryKey={true}></ColumnDirective>
        <ColumnDirective field='Task Name' headerText='Name' width='160'></ColumnDirective>
        <ColumnDirective field='Duration' headerText='Duration' width='90' textAlign='Right' />
        <ColumnDirective field='Progress' headerText='Progress' width='90' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Edit, Sort]} />
    </TreeGridComponent>
  </div>
);
}
export default App;
`

```

Performing CRUD actions

The [dataSourceChanged](#) event will be triggered for updating the grid data. You can perform the save operation based on the event arguments and call the `endEdit` method to indicate the completion of save operation.

```

`ts
import * as React from 'react';
import { Fetch, getValue } from '@syncfusion/ej2-base';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, Page, Edit, Sort,
  PageSettingsModel, EditSettingsModel, DataSourceChangedEventArgs } from '@syncfusion/ej2-react-treegrid';
import { DataResult } from '@syncfusion/ej2-data';
import * as ReactDOM from 'react-dom';
import { DataSourceChangedEventArgs } from '@syncfusion/ej2-grids';

```

```

function App() {
  const fetch: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'GET'
  });

  let BASE_URL: string = 'http://localhost:51473/api/Tasks';
  const execute = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    if (state.requestType === 'expand') {
      return getChildData(state);
    } else {
      return getData(state);
    }
  }

  const getData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    const pageQuery = `${skip}=${state.skip}&${top}=${state.take}`;
    /// filter query for fetching only the root level records
    const treegridQuery = "$filter='ParentId eq null'";
    fetch.url = `${BASE_URL}?${pageQuery}&${treegridQuery}&${inlinecount=allpages}&${format=json}`;
    return fetch.send().then((response: any) => {
      const data: any = response;
      return {
        count: parseInt(getValue('d.count', data), 10),
        result: getValue('d.results', data)
      };
    });
  }

  const getChildData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    let expandQuery: any;
    if (state.requestType === 'expand') {
      expandQuery = `filter=${'ParentId eq ' + getValue('TaskId', state.data)}`;
    }
    fetch.url = `${BASE_URL}?&${expandQuery}&${inlinecount=allpages}&${format=json}`;
  }
}

```

```
return fetch.send().then((response: any) => {
  const data: any = response;
  return data;
});
}

const addRecord = (state: DataSourceChangedEventArgs) : Promise<DataResult> => {
  const add: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'POST'
  });
  return add.send(JSON.stringify(state.data)).then((response: any) => {
    const data: any = response;
    return data;
  });
}

const updateRecord = (state: DataSourceChangedEventArgs) : Promise<DataResult> => {
  const update: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'PUT'
  });
  return update.send(JSON.stringify(state.data)).then((response: any) => {
    const data: any = response;
    return data;
  });
}

const deleteRecord = (state: any) : Promise<DataResult> => {
  const remove: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'DELETE'
  });
}
```

```

return remove.send(JSON.stringify((state.data && state.data[0]))).then((response: any) => {
const data: any = response;
return data;
});
}

let treegridObj: TreeGridComponent | null | undefined;
const pageSettings: PageSettingsModel = { pageSize: 4, pageSizeMode: 'Root' };
const editSettings: EditSettingsModel = { allowAdding: true, allowDeleting: true, allowEditing: true,
mode: 'Row' };
const getDataSource = (): void => {
if(treegridObj && (treegridObj.dataSource instanceof Array
&& !(treegridObj.dataSource as object[]).length)) {
const state = { skip: 0, take: 4 }; /// take value should always be equal to the pageSize of TreeGrid
dataStateChange(state);
}
}

const dataStateChange = (state : any): void => {
if (state.requestType === 'expand') {
execute(state).then((childData: any) => {
state.childData = childData;
state.childDataBind();
});
} else {
execute(state).then(( treedata ) => {
if(treegridObj) {
treegridObj.dataSource = treedata;
}
});
}
}

const dataSourceChanged = (state: any) => {
if (state.action === 'add') {
addRecord(state).then(() => state.endEdit());
}
}

```



```

} else if (state.action === 'edit') {
  updateRecord(state).then(() => state.endEdit());
} else if (state.requestType === 'delete') {
  deleteRecord(state).then(() => state.endEdit());
}
}
return (
  <div className="App">
    <TreeGridComponent dataSource={[]} dataBound={getDataSource} ref={treegrid => treegridObj =
treegrid} dataSourceChanged={dataSourceChanged} dataStateChange={dataStateChange} id="TreeGrid"
idMapping='TaskId' parentIdMapping='ParentId' allowPaging={true} treeColumnIndex={1}
pageSettings={pageSettings} editSettings={editSettings} hasChildMapping='isParent'>
      <ColumnsDirective>
        <ColumnDirective field='TaskId' headerText='ID' width='70' textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='Task Name' headerText='Name' width='160'/>
        <ColumnDirective field='Duration' headerText='Duration' width='90' textAlign='Right' />
        <ColumnDirective field='Progress' headerText='Progress' width='90' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Edit, Sort]} />
    </TreeGridComponent>
  </div>
);
}
export default App;
`

```

Calculate aggregates

The footer aggregate values should be calculated and sent along with the **dataSource** property as follows. The aggregate property of the data source should contain the aggregate value assigned to the property named in the **field – type** format. For example, the **Sum** aggregate value for the **Duration** field should be assigned to the property named as **Duration - sum**.

```

{
  result: [{..}, {..}, {..}, ...],
  count: 830,
  aggregates: { 'Freight - sum' : 450, 'EmployeeID - min': 1 }
}

```

```
}
,
```

Provide excel filter data source

The [dataStateChange](#) event will be triggered with appropriate arguments when the excel filter requests the filter choice data source. You need to resolve the excel filter data source using the **dataSource** resolver function from the state argument as follows.

```
`ts
import React, { Component } from 'react';
import { Fetch, getValue } from '@syncfusion/ej2-base';

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, Page, Edit, Sort,
PageSettingsModel, EditSettingsModel, FilterSettingsModel, DataStateChangeEventArgs } from
 '@syncfusion/ej2-react-treegrid';
import { DataResult } from '@syncfusion/ej2-data';

function App() {
  const fetch: Fetch = new Fetch({
    mode: true,
    onFailure: (e: Error) => false,
    type: 'GET'
  });

  /// this url is just a test url, provide the required url for fetching the data from server.
  const BASE_URL: string = 'http://localhost:51473/api/Tasks';
  const execute = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    return getData(state);
  }

  const getData = (state: DataStateChangeEventArgs): Promise<DataResult> => {
    const pageQuery = `${skip}=${state.skip}&${top}=${state.take}`;
    /// filter query for fetching only the root level records
    const treegridQuery = "$filter='ParentId eq null'";
    fetch.url = `${BASE_URL}?${pageQuery}&${treegridQuery}&$inlinecount=allpages&$format=json`;
    return fetch.send().then((response: any) => {
      const data: any = response;
      return {
        count: parseInt(getValue('d.count', data), 10),
        result: getValue('d.results', data)
      };
    });
  }
}
```

```

});
}

let treegridObj: TreeGridComponent | null ;
const pageSettings: PageSettingsModel = { pageSize: 2, pageSizeMode: 'Root' };
const filterSettings: FilterSettingsModel = { type: 'Excel' };
const editSettings: EditSettingsModel = { allowAdding: true, allowDeleting:true, allowEditing: true,
mode: 'Row' };
const getDataSource = (): void => {
if(treegridObj && (treegridObj.dataSource instanceof Array
&& !(treegridObj.dataSource as object[]).length)) {
const state = { skip: 0, take: 2 }; /// take value should always be equal to the pageSize of TreeGrid
dataStateChange(state);
}
}
const dataStateChange = (state : any): void => {
if (state.action && (state.action.requestType === 'filterchoicerequest'
|| state.action.requestType === 'filtersearchbegin')) {
execute(state).then((e) => state.dataSource && state.dataSource(e.result));
}
else {
execute(state).then(( treedata ) => {
if(treegridObj) {
treegridObj.dataSource = treedata;
}
});
}
}
return (
<div className="App">
<TreeGridComponent dataSource={[]} dataBound={getDataSource}
ref={treegrid => treegridObj = treegrid} hasChildMapping='isParent'
dataStateChange={dataStateChange} id="TreeGrid" idMapping='TaskId' parentIdMapping='ParentId'
allowPaging={true} treeColumnIndex={1} pageSettings={pageSettings} editSettings={editSettings} >
<ColumnsDirective>

```

```

<ColumnDirective field='TaskId' headerText='ID' width='70' textAlign='Right'
isPrimaryKey={true}></ColumnDirective>
<ColumnDirective field='Task Name' headerText='Name' width='160'></ColumnDirective>
<ColumnDirective field='Duration' headerText='Duration' width='90' textAlign='Right' />
<ColumnDirective field='Progress' headerText='Progress' width='90' textAlign='Right' />
</ColumnsDirective>
<Inject services={[Page, Edit, Sort]} />
</TreeGridComponent>
</div>
);
}
export default App;
`

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Local data in React Treegrid component

In Local Data binding, data source for rendering the TreeGrid control is retrieved from the same application locally.

Two types of Data binding are possible with the TreeGrid control.

- Hierarchical Datasource binding
- Self-Referential Data binding (Flat Data)

To bind local data to the treegrid, you can assign a JavaScript object array to the [dataSource](#) property. The local data source can also be provided as an instance of the **DataManager**.

By default, **DataManager** uses [JsonAdaptor](#) for local data-binding.

Hierarchy data source binding

The [childMapping](#) property is used to map the child records in hierarchy data source.

The following code example shows you how to bind the hierarchical local data into the TreeGrid control.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent }
  from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const pageOptions = { pageSize: 7 };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskId' headerText='Task ID' width='90'
  textAlign='Right' />

```

```

        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const pageOptions: PageSettingsModel = { pageSize: 7 };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    allowPaging={true} pageSettings={pageOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
export default App;

```

* Remote data binding is not supported for Hierarchy Data.

Self-Referential data binding (Flat data)

TreeGrid is rendered from Self-Referential data structures by providing two fields, ID field and parent ID field.

- **ID Field:** This field contains unique values used to identify nodes. Its name is assigned to the [idMapping](#) property.
- **Parent ID Field:** This field contains values that indicate parent nodes. Its name is assigned to the [parentIdMapping](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';

```

```
import * as React from 'react';
import { projectData } from './datasource';
function App() {
  const pageOptions = { pageSize: 7 };
  return <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
  idMapping='TaskID' parentIdMapping='parentID' allowPaging={true}
  pageSettings={pageOptions}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='TaskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='StartDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='Duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { projectData } from './datasource';
function App() {
  const pageOptions: PageSettingsModel = { pageSize: 7 };
  return <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
  idMapping='TaskID'
  parentIdMapping='parentID' allowPaging={true}
  pageSettings={pageOptions}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='TaskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='StartDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='Duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
};
export default App;
```

Herewith we have provided list of reserved properties and the purpose used in TreeGrid. We recommend to avoid these reserved properties for Internal purpose (To get rid of conflicts).

Reserved keywords | Purpose

childRecords | Specifies the childRecords of a parentData

hasChildRecords | Specifies whether the record contains child records

hasFilteredChildRecords | Specifies whether the record contains filtered child records

expanded | Specifies whether the child records are expanded

parentItem | Specifies the parentItem of childRecords

index | Specifies the index of current record

level | Specifies the hierarchy level of record

filterLevel | Specifies the hierarchy level of filtered record

parentIdMapping | Specifies the parentId

uniqueID | Specifies the unique ID of a record

parentUniqueID | Specifies the parent Unique ID of a record

checkboxState | Specifies the checkbox state of a record

isSummaryRow | Specifies the summary of a record

taskData | Specifies the main data

primaryParent | Specifies the Primary data

Remote data in React Treegrid component

To bind remote data to TreeGrid component, assign service data as an instance of **DataManager** to the [dataSource](#) property. To interact with remote data source, provide the endpoint **url** and define the [hasChildMapping](#) property of treegrid.

The [hasChildMapping](#) property maps the field name in data source, that denotes whether current record holds any child records. This is useful internally to show expand icon while binding child data on demand.

The TreeGrid provides **Load on Demand** support for rendering remote data. The Load on demand is considered in TreeGrid for the following actions.

- Expanding root nodes.
- Navigating pages, with paging enabled in TreeGrid.

When load on demand is enabled, all the root nodes are rendered in collapsed state at initial load.

When load on demand support is enabled in TreeGrid with paging, the current or active page's root node alone will be rendered in collapsed state. On expanding the root node, the child nodes will be loaded from the remote server.

When a root node is expanded, its child nodes are rendered and are cached locally, such that on consecutive expand/collapse actions on root node, the child nodes are loaded from the cache instead from the remote server.

Similarly, if the user navigates to a new page, the root nodes of that specific page, will be rendered with request to the remote server.

Remote Data Binding supports only Self-Referential Data and by default the `pageSizeMode` for Remote Data is `Root` mode. i.e only root node's count will be shown in pager while using Remote Data

APP.JSX

```
import { DataManager, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent }
  from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
  const data = new DataManager({
    adaptor: new WebApiAdaptor,
    crossDomain: true,
    url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
  });
  return <TreeGridComponent dataSource={data} hasChildMapping='isParent'
treeColumnIndex={1} idMapping='TaskID' parentIdMapping='ParentItem'
height='260' allowPaging={true}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { DataManager, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent }
  from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
  const data = new DataManager({
    adaptor: new WebApiAdaptor,
    crossDomain: true,
    url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
  });
  return <TreeGridComponent dataSource={data} hasChildMapping='isParent'
treeColumnIndex={1} idMapping='TaskID' parentIdMapping='ParentItem'
height='260' allowPaging={true}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
```



```

        <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
};
export default App;

```

By default, **DataManager** uses [ODataAdaptor](#) for remote data-binding.

Based on the RESTful web services, set the corresponding adaptor to DataManager. Refer [here](#) for more details.

Filtering and searching server-side data operations are not supported in load on demand

[LoadChildOnDemand](#)

While binding remote data to Tree Grid component, by default Tree Grid renders parent rows in collapsed state. Tree Grid provides option to load the child records also during the initial rendering itself for remote data binding by setting [loadChildOnDemand](#) as true.

When [loadChildOnDemand](#) is enabled parent records are rendered in expanded state.

The following code example describes the behavior of the loadChildOnDemand feature of Tree Grid.

```

`ts
import { DataManager, UrlAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
  const dataManager: DataManager = new DataManager({
    adaptor: new UrlAdaptor,
    insertUrl: "Home/Insert",
    removeUrl: "Home/Delete",
    updateUrl: "Home/Update",
    batchUrl: "Home/Remove",
    url: "Home/DataSource",
  });
  return <TreeGridComponent dataSource={dataManager} treeColumnIndex={1} idMapping= 'TaskID'
    parentIdMapping='parentID' loadChildOnDemand='true' height='270' allowPaging='true'>
    <ColumnsDirective>
    <ColumnDirective field='TaskID' headerText='Task ID' width='90' textAlign='Right' />

```

```

<ColumnDirective field='TaskName' headerText='Task Name' width='180'/>
<ColumnDirective field='StartDate' headerText='Start Date' width='90' textAlign='Right' format='yMd'
type='date' />
<ColumnDirective field='EndDate' headerText='End Date' width='90' format='yMd' textAlign='Right' />
<ColumnDirective field='Priority' headerText='Priority' width='110'/>
</ColumnsDirective>
</TreeGridComponent>
};
export default App;
`

```

Also while using **loadChildOnDemand** we need to handle the child records on server end and it is applicable to CRUD operations also.

The following code example describes handling of child records at server end.

```

`ts
public ActionResult UrlDatasource(DataManagerRequest dm)
{
    if (TreeData.tree.Count == 0)
        TreeData.GetTree();
    IEnumerable DataSource = TreeData.tree;
    DataOperations operation = new DataOperations();
    if (dm.Where != null && dm.Where.Count > 0)
    {
        DataSource = operation.PerformFiltering(DataSource, dm.Where, "and"); //perform filtering
    }
    if (dm.Sorted != null && dm.Sorted.Count > 0)
    {
        DataSource = operation.PerformSorting(DataSource, dm.Sorted); //perform sorting
    }
    var count = DataSource.ToList<TreeData>().Count();
    if (dm.Skip != 0)
    {
        DataSource = operation.PerformSkip(DataSource, dm.Skip); //Paging
    }
    if (dm.Take != 0)

```

```

{
DataSource = operation.PerformTake(DataSource, dm.Take);
}
if (dm.Where != null)
{
DataSource = CollectChildRecords(DataSource, dm); // method to collect child records
}
return dm.RequiresCounts ? Json(new { result = DataSource, count = count }) : Json(DataSource);
}

public IEnumerable CollectChildRecords(IEnumerable datasource, DataManagerRequest dm)
{
DataOperations operation = new DataOperations();
IEnumerable DataSource = TreeData.tree; // use the total DataSource here
string IdMapping = "TaskID"; // define your IdMapping field name here
int[] TaskIds = new int[0];
foreach (var rec in datasource)
{
int taskid = (int)rec.GetType().GetProperty(IdMapping).GetValue(rec);
TaskIds = TaskIds.Concat(new int[] { taskid }).ToArray(); //get the Parentrecord Ids based on IdMapping
Field
}
IEnumerable ChildRecords = null;
foreach (int id in TaskIds)
{
dm.Where[0].value = id;
IEnumerable records = operation.PerformFiltering(DataSource, dm.Where, dm.Where[0].Operator);
//perform filtering to collect the childrecords based on Ids
ChildRecords = ChildRecords == null || (ChildRecords.AsQueryable().Count() == 0) ? records :
((IEnumerable<object>)ChildRecords).Concat((IEnumerable<object>)records); //concat the
childrecords with dataSource
}
if (ChildRecords != null)
{
ChildRecords = CollectChildRecords(ChildRecords, dm); // repeat the operation for inner level child

```

```

if (dm.Sorted != null && dm.Sorted.Count > 0) // perform Sorting
{
    ChildRecords = operation.PerformSorting(ChildRecords, dm.Sorted);
}

datasource = ((IEnumerable<object>)datasource).Concat(((IEnumerable<object>)ChildRecords);
//concat the childrecords with dataSource
}

return datasource;
}
,

```

Offline mode

On remote data binding, all treegrid actions such as paging, loading child on-demand, will be processed on server-side. To avoid postback, set the treegrid to load all data on initialization and make the actions process in client-side. To enable this behavior, use the **offline** property of **DataManager**.

APP.JSX

```

import { DataManager, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent }
from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    const data = new DataManager({
        adaptor: new WebApiAdaptor,
        crossDomain: true,
        offline: true,
        url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
    });
    return <TreeGridComponent dataSource={data} hasChildMapping='isParent'
treeColumnIndex={1} idMapping='TaskID' parentIdMapping='ParentItem'
height='260' allowPaging={true}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
            <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { DataManager, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    const data = new DataManager({
        adaptor: new WebApiAdaptor,
        crossDomain: true,
        offline: true,
        url: 'https://ej2services.syncfusion.com/production/web-services/api/SelfReferenceData'
    });
    return <TreeGridComponent dataSource={data}
    hasChildMapping='isParent' treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='ParentItem' height='260'
    allowPaging={true}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
            width='90' textAlign='Right' />
            <ColumnDirective field='TaskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='StartDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
export default App;
```

Custom adaptor

You can create your own adaptor by extending the built-in adaptors. The following demonstrates custom adaptor approach and how to add a serial number for the records by overriding the built-in response processing using the `processResponse` method of the `ODataAdaptor`.

APP.JSX

```
import { DataManager } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { SerialNoAdaptor } from './serialNoAdaptor';
export default class App extends React.Component {
    data = new DataManager({
        adaptor: new SerialNoAdaptor,
        crossDomain: true,
        url: 'https://ej2services.syncfusion.com/production/web-services/api/SelfReferenceData'
    });
    render() {
        return <TreeGridComponent dataSource={this.data}
        hasChildMapping='isParent' treeColumnIndex={2} idMapping='TaskID'
        parentIdMapping='ParentItem' height='260'>
            <ColumnsDirective>
```

```

        <ColumnDirective field='Sno' headerText='Sno' width='90'
textAlign='Right' />
        <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
        <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
</TreeGridComponent>;
    }
}
;

```

APP.TSX

```

import { DataManager } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { SerialNoAdaptor } from './serialNoAdaptor';
export default class App extends React.Component<{}, {}>{
    public data = new DataManager({
        adaptor: new SerialNoAdaptor,
        crossDomain: true,
        url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
    });
    public render() {
        return <TreeGridComponent dataSource={this.data}
hasChildMapping='isParent' treeColumnIndex={2} idMapping='TaskID'
parentIdMapping='ParentItem' height='260'>
            <ColumnsDirective>
                <ColumnDirective field='Sno' headerText='Sno' width='90'
textAlign='Right' />
                <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
                <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
        </TreeGridComponent>
    }
};

```

SERIALNOADAPTOR.JSX

```

import { setValue } from '@syncfusion/ej2-base';
import { ODataAdaptor } from '@syncfusion/ej2-data';
export class SerialNoAdaptor extends ODataAdaptor {
    processResponse() {

```

```

    let i = 0;
    // calling base class processResponse function
    const original = super.processResponse.apply(this, arguments);
    if (!(original instanceof Array)) {
        // adding serial number
        original.result.forEach((item) => setValue('Sno', ++i, item));
    }
    return original;
}
}

```

SERIALNOADAPTOR.TSX

```

import { setValue } from '@syncfusion/ej2-base';
import { ODataAdapter } from '@syncfusion/ej2-data';
export class SerialNoAdaptor extends ODataAdapter {
    public processResponse() {
        let i: number = 0;
        // calling base class processResponse function
        const original: any = super.processResponse.apply(this, arguments);
        if (!(original instanceof Array)) {
            // adding serial number
            original.result.forEach((item: object) => setValue('Sno', ++i,
item));
        }
        return original;
    }
}

```

Sending additional parameters to the server

To add a custom parameter to the data request, use the [addParams](#) method of [Query](#) class. Assign the [Query](#) object with additional parameters to the treegrid [query](#) property.

APP.JSX

```

import { DataManager, Query, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    const data = new DataManager({
        adaptor: new WebApiAdaptor,
        crossDomain: true,
        url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
    });
    const query = new Query().addParams('ej2treegrid', 'true');
    return <TreeGridComponent dataSource={data} hasChildMapping='isParent'
treeColumnIndex={1} idMapping='TaskID' parentIdMapping='ParentItem'
height='260' query={query}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
            <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />

```

```

        <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { DataManager, Query, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    const data = new DataManager({
        adaptor: new WebApiAdaptor,
        crossDomain: true,
        url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
    });
    const query = new Query().addParams('ej2treegrid', 'true');
    return <TreeGridComponent dataSource={data}
hasChildMapping='isParent' treeColumnIndex={1} idMapping='TaskID'
parentIdMapping='ParentItem' height='260' query={query}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
            <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```

Handling HTTP error

During server interaction from the treegrid, some server-side exceptions may occur, and you can acquire those error messages or exception details in client-side using the [actionFailure](#) event.

The argument passed to the [actionFailure](#) event contains the error details returned from the server.

APP.JSX

```

import { DataManager } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    let treegrid;
    const data = new DataManager({

```



```

        url: 'http://some.com/invalidUrl'
    });
    const onActionFailure = (e) => {
        const span = document.createElement('span');
        if (treegrid) {
            treegrid.element.parentNode
                .insertBefore(span, treegrid.element);
            span.style.color = "#FF0000";
            span.innerHTML = "Server exception: 404 Not found";
        }
    };
    return <TreeGridComponent dataSource={data} ref={g => treegrid = g}
    hasChildMapping='isParent' treeColumnIndex={1} idMapping='TaskID'
    parentIdMapping='ParentItem' height='260' actionFailure={onActionFailure}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />
            <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { DataManager } from '@syncfusion/ej2-data';
import { FailureEventArgs } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, TreeGrid, TreeGridComponent }
from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    let treegrid: TreeGridComponent | null;
    const data = new DataManager({
        url: 'http://some.com/invalidUrl'
    });
    const onActionFailure = (e: FailureEventArgs) => {
        const span: HTMLElement = document.createElement('span');
        if (treegrid) {
            (treegrid.element.parentNode as HTMLElement)
                .insertBefore(span, treegrid.element);
            span.style.color = "#FF0000";
            span.innerHTML = "Server exception: 404 Not found";
        }
    };
    return <TreeGridComponent dataSource={data} ref={g => treegrid = g}
    hasChildMapping='isParent' treeColumnIndex={1} idMapping='TaskID'
    parentIdMapping='ParentItem' height='260' actionFailure={onActionFailure}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID'
width='90' textAlign='Right' />

```

```

        <ColumnDirective field='TaskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='Duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
</TreeGridComponent>
};
export default App;

```

The [actionFailure](#) event will be triggered not only for the server errors, but also when there is an exception while processing the treegrid actions.

Load on demand with virtualization

While binding remote data to Tree Grid component, by default Tree Grid renders parent rows in collapsed state. When expanding the root node, the child nodes will be loaded from the remote server.

When using virtualization with remote data binding, it helps you to improve the tree grid performance while loading a large set of data by setting [enableVirtualization](#) as true. The Tree Grid UI virtualization allows it to render only rows and columns visible within the view-port without buffering the entire datasource.

[hasChildMapping](#) property maps the field name in data source, that denotes whether current record holds any child records. This is useful internally to show expand icon while binding child data on demand.

`ts

```

import { DataManager, UrlAdaptor } from '@syncfusion/ej2-data';

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent, VirtualScroll, Sort, Filter, Edit,
EditSettingsModel, Toolbar, ToolbarItems, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';

import * as React from 'react';

function App() {
  const editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Row',
    newRowPosition: 'Below'
  };

  const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
  const pageSettings: PageSettingsModel = { pageSize: 30 };
  const dataManager: DataManager = new DataManager({
    adaptor: new UrlAdaptor,

```

```

insertUrl: "Home/Insert",
removeUrl: "Home/Delete",
updateUrl: "Home/Update",
url: "Home/DataSource",
});

return <TreeGridComponent dataSource={dataManager} treeColumnIndex={1} idMapping= 'TaskID'
parentIdMapping='ParentValue' hasChildMapping='isParent' expandStateMapping='IsExpanded'
height='400' enableVirtualization={true} editSettings={editOptions} toolbar={toolbarOptions}
allowFiltering={true} allowSorting={true} pageSettings={pageSettings}>
<ColumnsDirective>
<ColumnDirective field='TaskID' headerText='Task ID' width='90' textAlign='Right' isPrimaryKey={true}/>
<ColumnDirective field='TaskName' headerText='Task Name' width='180'/>
<ColumnDirective field='Duration' headerText='Duration' width='80' textAlign='Right' />
</ColumnsDirective>
<Inject services=[[Edit, VirtualScroll, Sort, Filter, Toolbar]] />
</TreeGridComponent>
};
export default App;

```

The following code example describes handling of Load on demand at server end.

```

`ts
public ActionResult lazyLoading()
{
TreeData.tree = new List<TreeData>();
return View();
}

public ActionResult UrlDatasource(DataManagerRequest dm)
{
List<TreeData> data = new List<TreeData>();
data = TreeData.GetTree();
DataOperations operation = new DataOperations();
IEnumerable<TreeData> DataSource = data;
List<TreeData> ExpandedParentRecords = new List<TreeData>();

```

```

if (dm.Expand != null && dm.Expand[0] == "ExpandingAction") // setting the ExpandStateMapping
property whether is true or false
{
var val = TreeData.GetTree().Where(ds => ds.TaskID == int.Parse(dm.Expand[1])).FirstOrDefault();
val.IsExpanded = true;
}
else if (dm.Expand != null && dm.Expand[0] == "CollapsingAction")
{
var val = TreeData.GetTree().Where(ds => ds.TaskID == int.Parse(dm.Expand[1])).FirstOrDefault();
val.IsExpanded = false;
}
if (!(dm.Where != null && dm.Where.Count > 1))
{
data = data.Where(p => p.ParentValue == null).ToList();
}
DataSource = data;
if (dm.Search != null && dm.Search.Count > 0) // Searching
{
DataSource = operation.PerformSearching(DataSource, dm.Search);
}
if (dm.Sorted != null && dm.Sorted.Count > 0 && dm.Sorted[0].Name != null) // Sorting
{
DataSource = operation.PerformSorting(DataSource, dm.Sorted);
}
if (dm.Where != null && dm.Where.Count > 1) //filtering
{
DataSource = operation.PerformFiltering(DataSource, dm.Where, "and");
}
data = new List<TreeData>();
foreach (var rec in DataSource)
{
if (rec.IsExpanded)
{

```

```
ExpandedParentRecords.Add(rec as TreeData); // saving the expanded parent records
}
data.Add(rec as TreeData);
}
var GroupData = TreeData.GetTree().ToList().GroupBy(rec => rec.ParentValue)
.Where(g => g.Key != null).ToDictionary(g => g.Key?.ToString(), g => g.ToList());
if (ExpandedParentRecords.Count > 0)
{
    foreach (var Record in ExpandedParentRecords.ToList())
    {
        var ChildGroup = GroupData[Record.TaskID.ToString()];
        if (dm.Sorted != null && dm.Sorted.Count > 0 && dm.Sorted[0].Name != null) // sorting the child records
        {
            IEnumerable ChildSort = ChildGroup;
            ChildSort = operation.PerformSorting(ChildSort, dm.Sorted);
            ChildGroup = new List<TreeData>();
            foreach (var rec in ChildSort)
            {
                ChildGroup.Add(rec as TreeData);
            }
        }
        if (dm.Search != null && dm.Search.Count > 0) // searching the child records
        {
            IEnumerable ChildSearch = ChildGroup;
            ChildSearch = operation.PerformSearching(ChildSearch, dm.Search);
            ChildGroup = new List<TreeData>();
            foreach (var rec in ChildSearch)
            {
                ChildGroup.Add(rec as TreeData);
            }
        }
        AppendChildren(dm, ChildGroup, Record, GroupData, data);
    }
}
```

```

}

DataSource = data;

if (dm.Expand != null && dm.Expand[0] == "CollapsingAction") // setting the skip index based on
collapsed parent
{
    string IdMapping = "TaskID";

    List<WhereFilter> CollapseFilter = new List<WhereFilter>();

    CollapseFilter.Add(new WhereFilter() { Field = IdMapping, value = dm.Where[0].value, Operator =
dm.Where[0].Operator });

    var CollapsedParentRecord = operation.PerformFiltering(DataSource, CollapseFilter, "and");

    var index = data.Cast<object>().ToList().IndexOf(CollapsedParentRecord.Cast<object>().ToList()[0]);

    dm.Skip = index;
}

else if (dm.Expand != null && dm.Expand[0] == "ExpandingAction") // setting the skip index based on
expanded parent
{
    string IdMapping = "TaskID";

    List<WhereFilter> ExpandFilter = new List<WhereFilter>();

    ExpandFilter.Add(new WhereFilter() { Field = IdMapping, value = dm.Where[0].value, Operator =
dm.Where[0].Operator });

    var ExpandedParentRecord = operation.PerformFiltering(DataSource, ExpandFilter, "and");

    var index = data.Cast<object>().ToList().IndexOf(ExpandedParentRecord.Cast<object>().ToList()[0]);

    dm.Skip = index;
}

int count = data.Count;

DataSource = data;

if (dm.Skip != 0)
{
    DataSource = operation.PerformSkip(DataSource, dm.Skip); //Paging
}

if (dm.Take != 0)
{
    DataSource = operation.PerformTake(DataSource, dm.Take);
}

```

```

return dm.RequiresCounts ? Json(new { result = DataSource, count = count }) : Json(DataSource);
}

private void AppendChildren(DataManagerRequest dm, List<TreeData> ChildRecords, TreeData
ParentValue, Dictionary<string, List<TreeData>> GroupData, List<TreeData> data) // Getting child
records for the respective parent
{
    string TaskId = ParentValue.TaskID.ToString();
    var index = data.IndexOf(ParentValue);
    DataOperations operation = new DataOperations();
    foreach (var Child in ChildRecords)
    {
        if (ParentValue.IsExpanded)
        {
            string ParentId = Child.ParentValue.ToString();
            if (TaskId == ParentId)
            {
                ((IList)data).Insert(++index, Child);
                if (GroupData.ContainsKey(Child.TaskID.ToString()))
                {
                    var DeepChildRecords = GroupData[Child.TaskID.ToString()];
                    if (DeepChildRecords?.Count > 0)
                    {
                        if (dm.Sorted != null && dm.Sorted.Count > 0 && dm.Sorted[0].Name != null) // sorting the child records
                        {
                            IEnumerable ChildSort = DeepChildRecords;
                            ChildSort = operation.PerformSorting(ChildSort, dm.Sorted);
                            DeepChildRecords = new List<TreeData>();
                            foreach (var rec in ChildSort)
                            {
                                DeepChildRecords.Add(rec as TreeData);
                            }
                        }
                    }
                }
            }
            if (dm.Search != null && dm.Search.Count > 0) // searching the child records
            {

```

```
IEnumerable ChildSearch = DeepChildRecords;
ChildSearch = operation.PerformSearching(ChildSearch, dm.Search);
DeepChildRecords = new List<TreeData>();
foreach (var rec in ChildSearch)
{
    DeepChildRecords.Add(rec as TreeData);
}
}
AppendChildren(dm, DeepChildRecords, Child, GroupData, data);
if (Child.IsExpanded)
{
    index += DeepChildRecords.Count;
}
}
}
else
{
    Child.isParent = false;
}
}
}
}
}
}
public ActionResult Update(CRUDModel<TreeData> value)
{
    List<TreeData> data = new List<TreeData>();
    data = TreeData.GetTree();
    var val = data.Where(ds => ds.TaskID == value.Value.TaskID).FirstOrDefault();
    val.TaskName = value.Value.TaskName;
    val.Duration = value.Value.Duration;
    return Json(val);
}
public ActionResult Insert(CRUDModel<TreeData> value)
```



```
{
var c = 0;
for (; c < TreeData.GetTree().Count; c++)
{
if (TreeData.GetTree()[c].TaskID == value.RelationalKey)
{
if (TreeData.GetTree()[c].isParent == null)
{
TreeData.GetTree()[c].isParent = true;
}
break;
}
}
c += FindChildRecords(value.RelationalKey);
TreeData.GetTree().Insert(c + 1, value.Value);
return Json(value.Value);
}

public int FindChildRecords(int? id)
{
var count = 0;
for (var i = 0; i < TreeData.GetTree().Count; i++)
{
if (TreeData.GetTree()[i].ParentValue == id)
{
count++;
count += FindChildRecords(TreeData.GetTree()[i].TaskID);
}
}
return count;
}

public object Delete(CRUDModel<TreeData> value)
{
if (value.deleted != null)
```

```

{
for (var i = 0; i < value.deleted.Count; i++)
{
TreeData.GetTree().Remove(TreeData.GetTree().Where(ds => ds.TaskID ==
value.deleted[i].TaskID).FirstOrDefault());
}
}
else
{
TreeData.GetTree().Remove(TreeData.GetTree().Where(or => or.TaskID ==
int.Parse(value.Key.ToString())).FirstOrDefault());
}
return Json(value);
}

public class CRUDModel<T> where T : class
{
public TreeData Value;
public int Key { get; set; }
public int RelationalKey { get; set; }
public List<T> added { get; set; }
public List<T> changed { get; set; }
public List<T> deleted { get; set; }
}

public class TreeData
{
public static List<TreeData> tree = new List<TreeData>();
[System.ComponentModel.DataAnnotations.Key]
public int TaskID { get; set; }
public string TaskName { get; set; }
public int Duration { get; set; }
public int? ParentValue { get; set; }
public bool? isParent { get; set; }
public bool IsExpanded { get; set; }
public TreeData() { }
}

```

```

public static List<TreeData> GetTree()
{
    if (tree.Count == 0)
    {
        int root = 0;
        for (var t = 1; t <= 500; t++)
        {
            Random ran = new Random();
            string math = (ran.Next() % 3) == 0 ? "High" : (ran.Next() % 2) == 0 ? "Release Breaker" : "Critical";
            string progr = (ran.Next() % 3) == 0 ? "Started" : (ran.Next() % 2) == 0 ? "Open" : "In Progress";
            root++;
            int rootItem = root;
            tree.Add(new TreeData() { TaskID = rootItem, TaskName = "Parent task " + rootItem.ToString(), isParent
            = true, IsExpanded = false, ParentValue = null, Duration = ran.Next(1, 50) });
            int parent = root;
            for (var d = 0; d < 1; d++)
            {
                root++;
                string value = ((parent + 1) % 3 == 0) ? "Low" : "Critical";
                int par = parent + 1;
                progr = (ran.Next() % 3) == 0 ? "In Progress" : (ran.Next() % 2) == 0 ? "Open" : "Validated";
                int iD = root;
                tree.Add(new TreeData() { TaskID = iD, TaskName = "Child task " + iD.ToString(), isParent = true,
                IsExpanded = false, ParentValue = rootItem, Duration = ran.Next(1, 50) });
                int subparent = root;
                for (var c = 0; c < 500; c++)
                {
                    root++;
                    string val = ((subparent + c + 1) % 3 == 0) ? "Low" : "Critical";
                    int subchild = subparent + c + 1;
                    string progress = (ran.Next() % 3) == 0 ? "In Progress" : (ran.Next() % 2) == 0 ? "Open" : "Validated";
                    int childID = root ;
                    tree.Add(new TreeData() { TaskID = childID, TaskName = "sub Child task " + childID.ToString(), isParent =
                    false, IsExpanded = false, ParentValue = subparent, Duration = ran.Next(1, 50) });
                }
            }
        }
    }
}

```

```

    }
    }
    }
    }
    return tree;
  }
}
`

```

Load parent rows in expanded state with virtualization

Tree Grid provides an option to load the child records in the initial rendering itself for remote data binding by setting the [loadChildOnDemand](#) as true. When the `loadChildOnDemand` is enabled, parent records are rendered in expanded state.

When using virtualization with `loadChildOnDemand`, it helps you to improve the tree grid performance while loading the child records during the initial rendering for remote data binding by setting [enableVirtualization](#) as true and `loadChildOnDemand` as true.

```

`ts
import { DataManager, UrlAdaptor } from '@syncfusion/ej2-data';

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent, VirtualScroll, Sort, Filter, Edit,
EditSettingsModel, Toolbar, ToolbarItems, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';

import * as React from 'react';

function App() {
  const editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Row',
    newRowPosition: 'Below'
  };

  const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
  const pageSettings: PageSettingsModel = { pageSize: 30 };
  const dataManager: DataManager = new DataManager({
    adaptor: new UrlAdaptor,
    insertUrl: "Home/Insert",
    removeUrl: "Home/Delete",
    updateUrl: "Home/Update",

```

```

url: "Home/DataSource",
});
return <TreeGridComponent dataSource={dataManager} treeColumnIndex={1} idMapping= 'TaskID'
parentIdMapping='ParentValue' hasChildMapping='isParent' expandStateMapping='IsExpanded'
loadChildOnDemand='true' height='400' enableVirtualization={true} editSettings={editOptions}
toolbar={toolbarOptions} allowFiltering={true} allowSorting={true} pageSettings={pageSettings}>
<ColumnsDirective>
<ColumnDirective field='TaskID' headerText='Task ID' width='90' textAlign='Right' isPrimaryKey={true}/>
<ColumnDirective field='TaskName' headerText='Task Name' width='180'/>
<ColumnDirective field='Duration' headerText='Duration' width='80' textAlign='Right' />
</ColumnsDirective>
<Inject services={{[Edit, VirtualScroll, Sort, Filter, Toolbar]}} />
</TreeGridComponent>
};
export default App;
`

```

The following code example describes handling of child records at server end.

```

`ts
public ActionResult loadChildOndemand()
{
TreeData.tree = new List<TreeData>();
return View();
}

public ActionResult UrlDatasource(DataManagerRequest dm)
{
List<TreeData> data = new List<TreeData>();
data = TreeData.GetTree();
DataOperations operation = new DataOperations();
IEnumerable<TreeData> DataSource = data;
if (dm.Expand != null && dm.Expand[0] == "CollapsingAction") // setting the ExpandStateMapping
property whether is true or false
{
var val = TreeData.GetTree().Where(ds => ds.TaskID == int.Parse(dm.Expand[1])).FirstOrDefault();
val.IsExpanded = false;
}
}

```

```

}
else if (dm.Expand != null && dm.Expand[0] == "ExpandingAction")
{
var val = TreeData.GetTree().Where(ds => ds.TaskID == int.Parse(dm.Expand[1])).FirstOrDefault();
val.IsExpanded = true;
}
if (!(dm.Where != null && dm.Where.Count > 1))
{
data = data.Where(p => p.ParentValue == null).ToList();
}
DataSource = data;
if (dm.Search != null && dm.Search.Count > 0) // Searching
{
DataSource = operation.PerformSearching(DataSource, dm.Search);
}
if (dm.Sorted != null && dm.Sorted.Count > 0 && dm.Sorted[0].Name != null) // Sorting
{
DataSource = operation.PerformSorting(DataSource, dm.Sorted);
}
if (dm.Where != null && dm.Where.Count > 1) //filtering
{
DataSource = operation.PerformFiltering(DataSource, dm.Where, "and");
}
data = new List<TreeData>();
foreach (var rec in DataSource)
{
data.Add(rec as TreeData);
}
var GroupData = TreeData.GetTree().ToList().GroupBy(rec => rec.ParentValue)
.Where(g => g.Key != null).ToDictionary(g => g.Key?.ToString(), g => g.ToList());
foreach (var Record in data.ToList())
{
if (GroupData.ContainsKey(Record.TaskID.ToString()))

```

```

{
var ChildGroup = GroupData[Record.TaskID.ToString()];
if (dm.Sorted != null && dm.Sorted.Count > 0 && dm.Sorted[0].Name != null) // Sorting the child records
{
IEnumerable ChildSort = ChildGroup;
ChildSort = operation.PerformSorting(ChildSort, dm.Sorted);
ChildGroup = new List<TreeData>();
foreach (var rec in ChildSort)
{
ChildGroup.Add(rec as TreeData);
}
}
if (dm.Search != null && dm.Search.Count > 0) // Searching the child records
{
IEnumerable ChildSearch = ChildGroup;
ChildSearch = operation.PerformSearching(ChildSearch, dm.Search);
ChildGroup = new List<TreeData>();
foreach (var rec in ChildSearch)
{
ChildGroup.Add(rec as TreeData);
}
}
if (ChildGroup?.Count > 0)
AppendChildren(dm, ChildGroup, Record, GroupData, data);
}
}

DataSource = data;

if (dm.Expand != null && dm.Expand[0] == "CollapsingAction") // setting the skip index based on
collapsed parent
{
string IdMapping = "TaskID";
List<WhereFilter> CollapseFilter = new List<WhereFilter>();
CollapseFilter.Add(new WhereFilter() { Field = IdMapping, value = dm.Where[0].value, Operator =
dm.Where[0].Operator });

```

```

var CollapsedParentRecord = operation.PerformFiltering(DataSource, CollapseFilter, "and");
var index = data.Cast<object>().ToList().IndexOf(CollapsedParentRecord.Cast<object>().ToList()[0]);
dm.Skip = index;
}

else if (dm.Expand != null && dm.Expand[0] == "ExpandingAction") // setting the skip index based on
expanded parent
{
string IdMapping = "TaskID";
List<WhereFilter> ExpandFilter = new List<WhereFilter>();
ExpandFilter.Add(new WhereFilter() { Field = IdMapping, value = dm.Where[0].value, Operator =
dm.Where[0].Operator });
var ExpandedParentRecord = operation.PerformFiltering(DataSource, ExpandFilter, "and");
var index = data.Cast<object>().ToList().IndexOf(ExpandedParentRecord.Cast<object>().ToList()[0]);
dm.Skip = index;
}

int count = data.Count;
DataSource = data;
if (dm.Skip != 0)
{
DataSource = operation.PerformSkip(DataSource, dm.Skip); //Paging
}

if (dm.Take != 0)
{
DataSource = operation.PerformTake(DataSource, dm.Take);
}

return dm.RequiresCounts ? Json(new { result = DataSource, count = count }) : Json(DataSource);
}

private void AppendChildren(DataManagerRequest dm, List<TreeData> ChildRecords, TreeData
ParentValue, Dictionary<string, List<TreeData>> GroupData, List<TreeData> data) // Getting child
records for the respective parent
{
string TaskId = ParentValue.TaskID.ToString();
var index = data.IndexOf(ParentValue);
DataOperations operation = new DataOperations();

```



```
foreach (var Child in ChildRecords)
{
    if (ParentValue.IsExpanded)
    {
        string ParentId = Child.ParentValue.ToString();
        if (TaskId == ParentId)
        {
            ((IList)data).Insert(++index, Child);
            if (GroupData.ContainsKey(Child.TaskID.ToString()))
            {
                var DeepChildRecords = GroupData[Child.TaskID.ToString()];
                if (DeepChildRecords?.Count > 0)
                {
                    if (dm.Sorted != null && dm.Sorted.Count > 0 && dm.Sorted[0].Name != null) // sorting the child records
                    {
                        IEnumerable ChildSort = DeepChildRecords;
                        ChildSort = operation.PerformSorting(ChildSort, dm.Sorted);
                        DeepChildRecords = new List<TreeData>();
                        foreach (var rec in ChildSort)
                        {
                            DeepChildRecords.Add(rec as TreeData);
                        }
                    }
                    if (dm.Search != null && dm.Search.Count > 0) // searching the child records
                    {
                        IEnumerable ChildSearch = DeepChildRecords;
                        ChildSearch = operation.PerformSearching(ChildSearch, dm.Search);
                        DeepChildRecords = new List<TreeData>();
                        foreach (var rec in ChildSearch)
                        {
                            DeepChildRecords.Add(rec as TreeData);
                        }
                    }
                }
            }
        }
    }
}
```

```
AppendChildren(dm, DeepChildRecords, Child, GroupData, data);
if (Child.IsExpanded)
{
    index += DeepChildRecords.Count;
}
}
}
}
}
}
}
}

public ActionResult Update(CRUDModel<TreeData> value)
{
    List<TreeData> data = new List<TreeData>();
    data = TreeData.GetTree();
    var val = data.Where(ds => ds.TaskID == value.Value.TaskID).FirstOrDefault();
    val.TaskName = value.Value.TaskName;
    val.Duration = value.Value.Duration;
    return Json(val);
}

public ActionResult Insert(CRUDModel<TreeData> value)
{
    var c = 0;
    for (; c < TreeData.GetTree().Count; c++)
    {
        if (TreeData.GetTree()[c].TaskID == value.RelationalKey)
        {
            if (TreeData.GetTree()[c].isParent == null)
            {
                TreeData.GetTree()[c].isParent = true;
            }
            break;
        }
    }
}
```

```

    }
    c += FindChildRecords(value.RelationalKey);
    TreeData.GetTree().Insert(c + 1, value.Value);
    return Json(value.Value);
}

public int FindChildRecords(int? id)
{
    var count = 0;
    for (var i = 0; i < TreeData.GetTree().Count; i++)
    {
        if (TreeData.GetTree()[i].ParentValue == id)
        {
            count++;
            count += FindChildRecords(TreeData.GetTree()[i].TaskID);
        }
    }
    return count;
}

public object Delete(CRUDModel<TreeData> value)
{
    if (value.deleted != null)
    {
        for (var i = 0; i < value.deleted.Count; i++)
        {
            TreeData.GetTree().Remove(TreeData.GetTree().Where(ds => ds.TaskID ==
            value.deleted[i].TaskID).FirstOrDefault());
        }
    }
    else
    {
        TreeData.GetTree().Remove(TreeData.GetTree().Where(or => or.TaskID ==
        int.Parse(value.Key.ToString()))).FirstOrDefault());
    }
    return Json(value);
}

```

```

}

public class CRUDModel<T> where T : class
{
    public TreeData Value;
    public int Key { get; set; }
    public int RelationalKey { get; set; }
    public List<T> added { get; set; }
    public List<T> changed { get; set; }
    public List<T> deleted { get; set; }
}

public class TreeData
{
    public static List<TreeData> tree = new List<TreeData>();
    [System.ComponentModel.DataAnnotations.Key]
    public int TaskID { get; set; }
    public string TaskName { get; set; }
    public int Duration { get; set; }
    public int? ParentValue { get; set; }
    public bool? isParent { get; set; }
    public bool IsExpanded { get; set; }
    public TreeData() { }
    public static List<TreeData> GetTree()
    {
        if (tree.Count == 0)
        {
            int root = 0;
            for (var t = 1; t <= 1500; t++)
            {
                Random ran = new Random();
                string math = (ran.Next() % 3) == 0 ? "High" : (ran.Next() % 2) == 0 ? "Release Breaker" : "Critical";
                string progr = (ran.Next() % 3) == 0 ? "Started" : (ran.Next() % 2) == 0 ? "Open" : "In Progress";
                root++;
                int rootItem = root;
            }
        }
    }
}

```

```

tree.Add(new TreeData() { TaskID = rootItem, TaskName = "Parent task " + rootItem.ToString(), isParent
= true, IsExpanded = true, ParentValue = null, Duration = ran.Next(1, 50) });

int parent = root;
for (var d = 0; d < 1; d++)
{
    root++;
    string value = ((parent + 1) % 3 == 0) ? "Low" : "Critical";
    int par = parent + 1;
    progr = (ran.Next() % 3) == 0 ? "In Progress" : (ran.Next() % 2) == 0 ? "Open" : "Validated";
    int iD = root;

    tree.Add(new TreeData() { TaskID = iD, TaskName = "Child task " + iD.ToString(), isParent = true,
    IsExpanded = true, ParentValue = rootItem, Duration = ran.Next(1, 50) });

    int subparent = root;
    for (var c = 0; c < 6; c++)
    {
        root++;
        string val = ((subparent + c + 1) % 3 == 0) ? "Low" : "Critical";
        int subchild = subparent + c + 1;
        string progress = (ran.Next() % 3) == 0 ? "In Progress" : (ran.Next() % 2) == 0 ? "Open" : "Validated";
        int childID = root ;

        tree.Add(new TreeData() { TaskID = childID, TaskName = "sub Child task " + childID.ToString(),
        ParentValue = subparent, Duration = ran.Next(1, 50) });
    }
}
return tree;
}
}
`

```

Immutable mode in React Treegrid component

The immutable mode optimizes the Tree Grid re-rendering performance by using the object reference and [deep compare](#) concept. When performing the Grid actions, it will only re-render the modified or newly added rows and prevent the re-rendering of the unchanged rows.

To enable this feature, you have to set the [enableImmutableMode](#) property as **true**.

* This feature uses the primary key value for data comparison. So, you need to provide the [isPrimaryKey](#) column.

APP.JSX

```
{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Page, Edit } from '@syncfusion/ej2-react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import * as React from 'react';
import { sampleData2, dataSource1, sampleData } from './datasource';
function App() {
  const pageSettings = { pageSize: 50 };
  const settings = { type: 'Multiple' };
  let immutableInit = true;
  let init = true;
  let normalStart;
  let immutableStart;
  let immutableGrid;
  let normalGrid;
  let topBtn;
  let bottomBtn;
  let deleteBtn;
  let sortBtn;
  let pageBtn;
  let editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell'
  };
  const immutableBeforeDataBound = () => {
    immutableStart = new Date().getTime();
  };
  const immutableDataBound = () => {
    let val = immutableInit ? '' : new Date().getTime() -
immutableStart;
    document.getElementById("immutableDelete").innerHTML =
      "Immutable rendering Time: " + "<b>" + val + "</b>" +
"<b>ms</b>";
    immutableStart = 0;
    immutableInit = false;
  };
  const addTopEvent = () => {
    normalGrid.addRecord(sampleData[0], 0, "Top");
    immutableGrid.addRecord(sampleData[0], 0, "Top");
  };
  const addBottomEvent = () => {
    normalGrid.addRecord(sampleData[0], 0, "Bottom");
    immutableGrid.addRecord(sampleData[0], 0, "Bottom");
  };
  const deleteEvent = () => {
    normalGrid.selectRows([0, 2, 4]);
    immutableGrid.selectRows([0, 2, 4]);
    normalGrid.deleteRecord();
    immutableGrid.deleteRecord();
  };
}
```

```

};
const sortEvent = () => {
  let aData = immutableGrid.dataSource.reverse();
  normalGrid.setProperties({ dataSource: aData });
  immutableGrid.setProperties({ dataSource: aData });
};
const pageEvent = () => {
  let page = normalGrid.pageSettings.currentPage + 1;
  normalGrid.goToPage(page);
  immutableGrid.goToPage(page);
};
const beforeDataBound = () => {
  normalStart = new Date().getTime();
};
const dataBound = () => {
  let val = init ? '' : new Date().getTime() - normalStart;
  document.getElementById("normalDelete").innerHTML =
    "Normal rendering Time: " + "<b>" + val + "</b>" + "<b>ms</b>";
  normalStart = 0;
  init = false;
};
if (sampleData2.length == 0) {
  dataSource1();
}
return (<div>
  <table>
    <tbody>
      <tr>
        <td>
          <span id="immutableDelete"></span>
        </td>
      </tr>
      <tr>
        <td>
          <span id="normalDelete"></span>
        </td>
      </tr>
      <tr>
        <td>
          <div>
            <ButtonComponent ref={topBtn} cssClass='e-info'
onClick={addTopEvent}>Add row at top</ButtonComponent>
            <ButtonComponent ref={bottomBtn} cssClass='e-info'
onClick={addBottomEvent}>Add row at bottom</ButtonComponent>
            <ButtonComponent ref={deleteBtn} cssClass='e-info'
onClick={deleteEvent}>Delete 5 rows</ButtonComponent>
            <ButtonComponent ref={sortBtn} cssClass='e-info'
onClick={sortEvent}>Sort Task ID</ButtonComponent>
            <ButtonComponent ref={pageBtn} cssClass='e-info'
onClick={pageEvent}>Paging</ButtonComponent>
          </div>
        </td>
      </tr>
      <tr>
        <td>
          <span><b>Immutable Grid</b></span>
        </td>
      </tr>
    </tbody>
  </table>
</div>

```

```

        <TreeGridComponent ref={immutable => { immutableGrid =
immutable; }} treeColumnIndex={1} childMapping='subtasks'
dataSource={sampleData2} height='350' selectionSettings={settings}
enableImmutableMode={true} allowPaging={true} pageSettings={pageSettings}
beforeDataBound={immutableBeforeDataBound} dataBound={immutableDataBound}
editSettings={editOptions}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' isPrimaryKey={true}/>
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='priority' headerText='Priority'
width='90' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Page, Edit]} />
        </TreeGridComponent>
    </td>
    <td>
        <span><b>Normal Grid</b></span>
        <TreeGridComponent ref={normal => { normalGrid = normal; }}
treeColumnIndex={1} childMapping='subtasks' dataSource={sampleData2}
allowPaging={true} height='350' pageSettings={pageSettings}
selectionSettings={settings} beforeDataBound={beforeDataBound}
editSettings={editOptions} dataBound={dataBound}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' isPrimaryKey={true}/>
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='priority' headerText='Priority'
width='90' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Page, Edit]} />
        </TreeGridComponent>
    </td>
</tr>
</tbody>
</table></div>);
}
;
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent, Inject } from
'@syncfusion/ej2-react-treegrid';
import { Page, Edit, SelectionSettingsModel, EditSettingsModel } from
'@syncfusion/ej2-react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import * as React from 'react';

```



```

import { sampleData2, dataSource1, sampleData } from './datasource';
function App() {
  const pageSettings: object = { pageSize: 50 };
  const settings: SelectionSettingsModel = { type: 'Multiple' };
  let immutableInit: boolean = true;
  let init: boolean = true;
  let normalStart: number;
  let immutableStart: number;
  let immutableGrid: GridComponent;
  let normalGrid: GridComponent;
  let topBtn: ButtonComponent;
  let bottomBtn: ButtonComponent;
  let deleteBtn: ButtonComponent;
  let sortBtn: ButtonComponent;
  let pageBtn: ButtonComponent;
  let editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell'
  };
  const immutableBeforeDataBound = () => {
    immutableStart = new Date().getTime();
  }
  const immutableDataBound = () => {
    let val: number | string = immutableInit ? '' : new Date().getTime()
- immutableStart;
    document.getElementById("immutableDelete").innerHTML =
      "Immutable rendering Time: " + "<b>" + val + "</b>" +
      "<b>ms</b>";
    immutableStart = 0; immutableInit = false;
  }
  const addTopEvent = () => {
    normalGrid.addRecord(sampleData[0], 0, "Top");
    immutableGrid.addRecord(sampleData[0], 0, "Top");
  }
  const addBottomEvent = () => {
    normalGrid.addRecord(sampleData[0], 0, "Bottom");
    immutableGrid.addRecord(sampleData[0], 0, "Bottom");
  }
  const deleteEvent = () => {
    normalGrid.selectRows([0, 2, 4]);
    immutableGrid.selectRows([0, 2, 4]);
    normalGrid.deleteRecord();
    immutableGrid.deleteRecord();
  }
  const sortEvent = () => {
    let aData: object[] = (immutableGrid.dataSource as
object[]).reverse();
    normalGrid.setProperties({ dataSource: aData });
    immutableGrid.setProperties({ dataSource: aData });
  }
  const pageEvent = () => {
    let page: number = normalGrid.pageSettings.currentPage + 1;
    normalGrid.goToPage(page);
    immutableGrid.goToPage(page);
  }
}

```

```

const beforeDataBound = () => {
    normalStart = new Date().getTime();
}
const dataBound = () => {
    let val: number | string = init ? '' : new Date().getTime() -
normalStart;
    document.getElementById("normalDelete").innerHTML =
        "Normal rendering Time: " + "<b>" + val + "</b>" + "<b>ms</b>";
    normalStart = 0; init = false;
}
if(sampleData2.length == 0){
    dataSource1();
}
return (<div>
    <table>
        <tbody>
            <tr>
                <td>
                    <span id="immutableDelete"></span>
                </td>
            </tr>
            <tr>
                <td>
                    <span id="normalDelete"></span>
                </td>
            </tr>
            <tr>
                <td>
                    <div>
                        <ButtonComponent ref={topBtn} cssClass='e-info'
onClick={addTopEvent}>Add row at top</ButtonComponent>
                        <ButtonComponent ref={bottomBtn} cssClass='e-info'
onClick={addBottomEvent}>Add row at bottom</ButtonComponent>
                        <ButtonComponent ref={deleteBtn} cssClass='e-info'
onClick={deleteEvent}>Delete 5 rows</ButtonComponent>
                        <ButtonComponent ref={sortBtn} cssClass='e-info'
onClick={sortEvent}>Sort Task ID</ButtonComponent>
                        <ButtonComponent ref={pageBtn} cssClass='e-info'
onClick={pageEvent}>Paging</ButtonComponent>
                    </div>
                </td>
            </tr>
            <tr>
                <td>
                    <span><b>Immutable Grid</b></span>
                    <TreeGridComponent ref={immutable} => { immutableGrid =
immutable }} treeColumnIndex={1} childMapping='subtasks'
dataSource={sampleData2} height='350' selectionSettings={settings}
enableImmutableMode={true} allowPaging={true} pageSettings={pageSettings}
beforeDataBound={immutableBeforeDataBound} dataBound={immutableDataBound}
editSettings={editOptions}>
                        <ColumnsDirective>
                            <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' isPrimaryKey={true}/>
                            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>

```

```

        <ColumnDirective field='priority' headerText='Priority'
width='90' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Edit]} />
    </TreeGridComponent>
  </td>
  <td>
    <span><b>Normal Grid</b></span>
    <TreeGridComponent ref={normal => { normalGrid = normal }}
treeColumnIndex={1} childMapping='subtasks' dataSource={sampleData2}
allowPaging={true} height='350' pageSettings={pageSettings}
selectionSettings={settings} beforeDataBound={beforeDataBound}
editSettings={editOptions} dataBound={dataBound}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='priority' headerText='Priority'
width='90' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Edit]} />
    </TreeGridComponent>
  </td>
</tr>
</tbody>
</table></div>
);
export default App;
{% endraw %}

```

DATASOURCE.JSX

```

/**
 *Sample data
 */
export let virtualData = [];
export function dataSource() {
  let parent = -1;
  let parentId = null;
  let names = ['VINET', 'TOMSP', 'HANAR', 'VICTE', 'SUPRD', 'HANAR',
'CHOPS', 'RICSU', 'WELLI', 'HILAA', 'ERNSH', 'CENTC',
'OTTIK', 'QUEDE', 'RATTC', 'ERNSH', 'FOLKO', 'BLONP', 'WARTH',
'FRANK', 'GROSR', 'WHITC', 'WARTH', 'SPLIR', 'RATTC', 'QUICK', 'VINET',
'MAGAA', 'TORTU', 'MORGK', 'BERGS', 'LEHMS', 'BERGS', 'ROMEY',
'ROMEY', 'LILAS', 'LEHMS', 'QUICK', 'QUICK', 'RICAR', 'REGGC', 'BSBEV',
'COMMI', 'QUEDE', 'TRADH', 'TORTU', 'RATTC', 'VINET', 'LILAS',
'BLONP', 'HUNGO', 'RICAR', 'MAGAA', 'WANDK', 'SUPRD', 'GODOS', 'TORTU',
'OLDWO', 'ROMEY', 'LONEP', 'ANATR', 'HUNGO', 'THEBI', 'DUMON',
'WANDK', 'QUICK', 'RATTC', 'ISLAT', 'RATTC', 'LONEP', 'ISLAT', 'TORTU',
'WARTH', 'ISLAT', 'PERIC', 'KOENE', 'SAVEA', 'KOENE', 'BOLID',
'FOLKO', 'FURIB', 'SPLIR', 'LILAS', 'BONAP', 'MEREP', 'WARTH', 'VICTE',

```

```

    'HUNGO', 'PRINI', 'FRANK', 'OLDWO', 'MEREP', 'BONAP', 'SIMOB',
    'FRANK', 'LEHMS', 'WHITC', 'QUICK', 'RATTC', 'FAMIA'];
    for (let i = 0; i < 10000; i++) {
        if (i % 5 === 0) {
            parent = i;
        }
        if (i % 5 !== 0) {
            let crew = 'Crew';
            let num = isNaN((virtualData.length % parent) - 1) ? 0 :
(virtualData.length % parent) - 1;
            virtualData[num][crew].push({
                'TaskID': i + 1,
                'FIELD1': names[Math.floor(Math.random() * names.length)],
                'FIELD2': 1967 + (i % 10),
                'FIELD3': Math.floor(Math.random() * 200),
                'FIELD4': Math.floor(Math.random() * 100),
                'FIELD5': Math.floor(Math.random() * 2000),
                'FIELD6': Math.floor(Math.random() * 1000),
                'FIELD7': Math.floor(Math.random() * 100),
                'FIELD8': Math.floor(Math.random() * 10),
                'FIELD9': Math.floor(Math.random() * 10),
                'FIELD10': Math.floor(Math.random() * 100),
                'FIELD11': Math.floor(Math.random() * 100),
                'FIELD12': Math.floor(Math.random() * 1000),
                'FIELD13': Math.floor(Math.random() * 10),
                'FIELD14': Math.floor(Math.random() * 10),
                'FIELD15': Math.floor(Math.random() * 1000),
                'FIELD16': Math.floor(Math.random() * 200),
                'FIELD17': Math.floor(Math.random() * 300),
                'FIELD18': Math.floor(Math.random() * 400),
                'FIELD19': Math.floor(Math.random() * 500),
                'FIELD20': Math.floor(Math.random() * 700),
                'FIELD21': Math.floor(Math.random() * 800),
                'FIELD22': Math.floor(Math.random() * 1000),
                'FIELD23': Math.floor(Math.random() * 2000),
                'FIELD24': Math.floor(Math.random() * 150),
                'FIELD25': Math.floor(Math.random() * 1000),
                'FIELD26': Math.floor(Math.random() * 100),
                'FIELD27': Math.floor(Math.random() * 400),
                'FIELD28': Math.floor(Math.random() * 600),
                'FIELD29': Math.floor(Math.random() * 500),
                'FIELD30': Math.floor(Math.random() * 300),
            });
        }
        else {
            virtualData.push({
                'TaskID': i + 1,
                'Crew': [],
                'FIELD1': names[Math.floor(Math.random() * names.length)],
                'FIELD2': 1967 + (i % 10),
                'FIELD3': Math.floor(Math.random() * 200),
                'FIELD4': Math.floor(Math.random() * 100),
                'FIELD5': Math.floor(Math.random() * 2000),
                'FIELD6': Math.floor(Math.random() * 1000),
                'FIELD7': Math.floor(Math.random() * 100),
                'FIELD8': Math.floor(Math.random() * 10),
                'FIELD9': Math.floor(Math.random() * 10),
            });
        }
    }
}

```

```

        'FIELD10': Math.floor(Math.random() * 100),
        'FIELD11': Math.floor(Math.random() * 100),
        'FIELD12': Math.floor(Math.random() * 1000),
        'FIELD13': Math.floor(Math.random() * 10),
        'FIELD14': Math.floor(Math.random() * 10),
        'FIELD15': Math.floor(Math.random() * 1000),
        'FIELD16': Math.floor(Math.random() * 200),
        'FIELD17': Math.floor(Math.random() * 300),
        'FIELD18': Math.floor(Math.random() * 400),
        'FIELD19': Math.floor(Math.random() * 500),
        'FIELD20': Math.floor(Math.random() * 700),
        'FIELD21': Math.floor(Math.random() * 800),
        'FIELD22': Math.floor(Math.random() * 1000),
        'FIELD23': Math.floor(Math.random() * 2000),
        'FIELD24': Math.floor(Math.random() * 150),
        'FIELD25': Math.floor(Math.random() * 1000),
        'FIELD26': Math.floor(Math.random() * 100),
        'FIELD27': Math.floor(Math.random() * 400),
        'FIELD28': Math.floor(Math.random() * 600),
        'FIELD29': Math.floor(Math.random() * 500),
        'FIELD30': Math.floor(Math.random() * 300),
    });
    }
}
}
let stringData = JSON.stringify([
    {
        'OrderID': 10248,
        'CustomerID': 'VINET',
        'OrderDate': '1996-07-04T00:00:00.000Z',
        'ShippedDate': '1996-07-16T00:00:00.000Z',
        'Freight': 32.38,
        'ShipName': 'Vins et alcools Chevalier',
        'ShipAddress': '59 rue de l\'Abbaye',
        'ShipCity': 'Reims',
        'ShipRegion': null,
        'ShipCountry': 'France'
    },
    {
        'OrderID': 10249,
        'CustomerID': 'TOMSP',
        'OrderDate': '1996-07-05T00:00:00.000Z',
        'ShippedDate': '1996-07-10T00:00:00.000Z',
        'Freight': 11.61,
        'ShipName': 'Toms Spezialitäten',
        'ShipAddress': 'Luisenstr. 48',
        'ShipCity': 'Münster',
        'ShipRegion': null,
        'ShipCountry': 'Germany'
    },
    {
        'OrderID': 10250,
        'CustomerID': 'HANAR',
        'OrderDate': '1996-07-08T00:00:00.000Z',
        'ShippedDate': '1996-07-12T00:00:00.000Z',
        'Freight': 65.83,
        'ShipName': 'Hanari Carnes',
    }
]);

```

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      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10251,
      'CustomerID': 'VICTE',
      'OrderDate': '1996-07-08T00:00:00.000Z',
      'ShippedDate': '1996-07-15T00:00:00.000Z',
      'Freight': 41.34,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10252,
      'CustomerID': 'SUPRD',
      'OrderDate': '1996-07-09T00:00:00.000Z',
      'ShippedDate': '1996-07-11T00:00:00.000Z',
      'Freight': 51.3,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
      'OrderID': 10253,
      'CustomerID': 'HANAR',
      'OrderDate': '1996-07-10T00:00:00.000Z',
      'ShippedDate': '1996-07-16T00:00:00.000Z',
      'Freight': 58.17,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10254,
      'CustomerID': 'CHOPS',
      'OrderDate': '1996-07-11T00:00:00.000Z',
      'ShippedDate': '1996-07-23T00:00:00.000Z',
      'Freight': 22.98,
      'ShipName': 'Chop-suey Chinese',
      'ShipAddress': 'Hauptstr. 31',
      'ShipCity': 'Bern',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10255,
      'CustomerID': 'RICSU',
      'OrderDate': '1996-07-12T00:00:00.000Z',

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    'ShippedDate': '1996-07-15T00:00:00.000Z',
    'Freight': 148.33,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10256,
    'CustomerID': 'WELLI',
    'OrderDate': '1996-07-15T00:00:00.000Z',
    'ShippedDate': '1996-07-17T00:00:00.000Z',
    'Freight': 13.97,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10257,
    'CustomerID': 'HILAA',
    'OrderDate': '1996-07-16T00:00:00.000Z',
    'ShippedDate': '1996-07-22T00:00:00.000Z',
    'Freight': 81.91,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10258,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-07-17T00:00:00.000Z',
    'ShippedDate': '1996-07-23T00:00:00.000Z',
    'Freight': 140.51,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10259,
    'CustomerID': 'CENTC',
    'OrderDate': '1996-07-18T00:00:00.000Z',
    'ShippedDate': '1996-07-25T00:00:00.000Z',
    'Freight': 3.25,
    'ShipName': 'Centro comercial Moctezuma',
    'ShipAddress': 'Sierras de Granada 9993',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {

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      'OrderID': 10260,
      'CustomerID': 'OTTIK',
      'OrderDate': '1996-07-19T00:00:00.000Z',
      'ShippedDate': '1996-07-29T00:00:00.000Z',
      'Freight': 55.09,
      'ShipName': 'Ottilies Käseladen',
      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10261,
      'CustomerID': 'QUEDE',
      'OrderDate': '1996-07-19T00:00:00.000Z',
      'ShippedDate': '1996-07-30T00:00:00.000Z',
      'Freight': 3.05,
      'ShipName': 'Que Delícia',
      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10262,
      'CustomerID': 'RATTC',
      'OrderDate': '1996-07-22T00:00:00.000Z',
      'ShippedDate': '1996-07-25T00:00:00.000Z',
      'Freight': 48.29,
      'ShipName': 'Rattlesnake Canyon Grocery',
      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10263,
      'CustomerID': 'ERNSH',
      'OrderDate': '1996-07-23T00:00:00.000Z',
      'ShippedDate': '1996-07-31T00:00:00.000Z',
      'Freight': 146.06,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10264,
      'CustomerID': 'FOLKO',
      'OrderDate': '1996-07-24T00:00:00.000Z',
      'ShippedDate': '1996-08-23T00:00:00.000Z',
      'Freight': 3.67,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,

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      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10265,
      'CustomerID': 'BLONP',
      'OrderDate': '1996-07-25T00:00:00.000Z',
      'ShippedDate': '1996-08-12T00:00:00.000Z',
      'Freight': 55.28,
      'ShipName': 'Blondel père et fils',
      'ShipAddress': '24, place Kléber',
      'ShipCity': 'Strasbourg',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10266,
      'CustomerID': 'WARTH',
      'OrderDate': '1996-07-26T00:00:00.000Z',
      'ShippedDate': '1996-07-31T00:00:00.000Z',
      'Freight': 25.73,
      'ShipName': 'Wartian Herkku',
      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10267,
      'CustomerID': 'FRANK',
      'OrderDate': '1996-07-29T00:00:00.000Z',
      'ShippedDate': '1996-08-06T00:00:00.000Z',
      'Freight': 208.58,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10268,
      'CustomerID': 'GROSR',
      'OrderDate': '1996-07-30T00:00:00.000Z',
      'ShippedDate': '1996-08-02T00:00:00.000Z',
      'Freight': 66.29,
      'ShipName': 'GROSELLA-Restaurante',
      'ShipAddress': '5a Ave. Los Palos Grandes',
      'ShipCity': 'Caracas',
      'ShipRegion': 'DF',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10269,
      'CustomerID': 'WHITC',
      'OrderDate': '1996-07-31T00:00:00.000Z',
      'ShippedDate': '1996-08-09T00:00:00.000Z',
      'Freight': 4.56,
      'ShipName': 'White Clover Markets',

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      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10270,
      'CustomerID': 'WARTH',
      'OrderDate': '1996-08-01T00:00:00.000Z',
      'ShippedDate': '1996-08-02T00:00:00.000Z',
      'Freight': 136.54,
      'ShipName': 'Wartian Herkku',
      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10271,
      'CustomerID': 'SPLIR',
      'OrderDate': '1996-08-01T00:00:00.000Z',
      'ShippedDate': '1996-08-30T00:00:00.000Z',
      'Freight': 4.54,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10272,
      'CustomerID': 'RATTC',
      'OrderDate': '1996-08-02T00:00:00.000Z',
      'ShippedDate': '1996-08-06T00:00:00.000Z',
      'Freight': 98.03,
      'ShipName': 'Rattlesnake Canyon Grocery',
      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10273,
      'CustomerID': 'QUICK',
      'OrderDate': '1996-08-05T00:00:00.000Z',
      'ShippedDate': '1996-08-12T00:00:00.000Z',
      'Freight': 76.07,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10274,
      'CustomerID': 'VINET',
      'OrderDate': '1996-08-06T00:00:00.000Z',

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    'ShippedDate': '1996-08-16T00:00:00.000Z',
    'Freight': 6.01,
    'ShipName': 'Vins et alcools Chevalier',
    'ShipAddress': '59 rue de l\'Abbaye',
    'ShipCity': 'Reims',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10275,
    'CustomerID': 'MAGAA',
    'OrderDate': '1996-08-07T00:00:00.000Z',
    'ShippedDate': '1996-08-09T00:00:00.000Z',
    'Freight': 26.93,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10276,
    'CustomerID': 'TORTU',
    'OrderDate': '1996-08-08T00:00:00.000Z',
    'ShippedDate': '1996-08-14T00:00:00.000Z',
    'Freight': 13.84,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10277,
    'CustomerID': 'MORGK',
    'OrderDate': '1996-08-09T00:00:00.000Z',
    'ShippedDate': '1996-08-13T00:00:00.000Z',
    'Freight': 125.77,
    'ShipName': 'Morgenstern Gesundkost',
    'ShipAddress': 'Heerstr. 22',
    'ShipCity': 'Leipzig',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10278,
    'CustomerID': 'BERGS',
    'OrderDate': '1996-08-12T00:00:00.000Z',
    'ShippedDate': '1996-08-16T00:00:00.000Z',
    'Freight': 92.69,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {

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      'OrderID': 10279,
      'CustomerID': 'LEHMS',
      'OrderDate': '1996-08-13T00:00:00.000Z',
      'ShippedDate': '1996-08-16T00:00:00.000Z',
      'Freight': 25.83,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10280,
      'CustomerID': 'BERGS',
      'OrderDate': '1996-08-14T00:00:00.000Z',
      'ShippedDate': '1996-09-12T00:00:00.000Z',
      'Freight': 8.98,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10281,
      'CustomerID': 'ROMEY',
      'OrderDate': '1996-08-14T00:00:00.000Z',
      'ShippedDate': '1996-08-21T00:00:00.000Z',
      'Freight': 2.94,
      'ShipName': 'Romero y tomillo',
      'ShipAddress': 'Gran Vía, 1',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10282,
      'CustomerID': 'ROMEY',
      'OrderDate': '1996-08-15T00:00:00.000Z',
      'ShippedDate': '1996-08-21T00:00:00.000Z',
      'Freight': 12.69,
      'ShipName': 'Romero y tomillo',
      'ShipAddress': 'Gran Vía, 1',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10283,
      'CustomerID': 'LILAS',
      'OrderDate': '1996-08-16T00:00:00.000Z',
      'ShippedDate': '1996-08-23T00:00:00.000Z',
      'Freight': 84.81,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',

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    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10284,
    'CustomerID': 'LEHMS',
    'OrderDate': '1996-08-19T00:00:00.000Z',
    'ShippedDate': '1996-08-27T00:00:00.000Z',
    'Freight': 76.56,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10285,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-08-20T00:00:00.000Z',
    'ShippedDate': '1996-08-26T00:00:00.000Z',
    'Freight': 76.83,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10286,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-08-21T00:00:00.000Z',
    'ShippedDate': '1996-08-30T00:00:00.000Z',
    'Freight': 229.24,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10287,
    'CustomerID': 'RICAR',
    'OrderDate': '1996-08-22T00:00:00.000Z',
    'ShippedDate': '1996-08-28T00:00:00.000Z',
    'Freight': 12.76,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'REGGC',
    'OrderDate': '1996-08-23T00:00:00.000Z',
    'ShippedDate': '1996-09-03T00:00:00.000Z',
    'Freight': 7.45,
    'ShipName': 'Reggiani Caseifici',

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      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
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      'CustomerID': 'BSBEV',
      'OrderDate': '1996-08-26T00:00:00.000Z',
      'ShippedDate': '1996-08-28T00:00:00.000Z',
      'Freight': 22.77,
      'ShipName': 'B\ Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
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      'CustomerID': 'COMMI',
      'OrderDate': '1996-08-27T00:00:00.000Z',
      'ShippedDate': '1996-09-03T00:00:00.000Z',
      'Freight': 79.7,
      'ShipName': 'Comércio Mineiro',
      'ShipAddress': 'Av. dos Lusíadas, 23',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'QUEDE',
      'OrderDate': '1996-08-27T00:00:00.000Z',
      'ShippedDate': '1996-09-04T00:00:00.000Z',
      'Freight': 6.4,
      'ShipName': 'Que Delícia',
      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
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      'CustomerID': 'TRADH',
      'OrderDate': '1996-08-28T00:00:00.000Z',
      'ShippedDate': '1996-09-02T00:00:00.000Z',
      'Freight': 1.35,
      'ShipName': 'Tradição Hipermercados',
      'ShipAddress': 'Av. Inês de Castro, 414',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10293,
      'CustomerID': 'TORTU',
      'OrderDate': '1996-08-29T00:00:00.000Z',

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    'ShippedDate': '1996-09-11T00:00:00.000Z',
    'Freight': 21.18,
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    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
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    'CustomerID': 'RATTC',
    'OrderDate': '1996-08-30T00:00:00.000Z',
    'ShippedDate': '1996-09-05T00:00:00.000Z',
    'Freight': 147.26,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10295,
    'CustomerID': 'VINET',
    'OrderDate': '1996-09-02T00:00:00.000Z',
    'ShippedDate': '1996-09-10T00:00:00.000Z',
    'Freight': 1.15,
    'ShipName': 'Vins et alcools Chevalier',
    'ShipAddress': '59 rue de l\'Abbaye',
    'ShipCity': 'Reims',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10296,
    'CustomerID': 'LILAS',
    'OrderDate': '1996-09-03T00:00:00.000Z',
    'ShippedDate': '1996-09-11T00:00:00.000Z',
    'Freight': 0.12,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'BLONP',
    'OrderDate': '1996-09-04T00:00:00.000Z',
    'ShippedDate': '1996-09-10T00:00:00.000Z',
    'Freight': 5.74,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {

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      'OrderID': 10298,
      'CustomerID': 'HUNGO',
      'OrderDate': '1996-09-05T00:00:00.000Z',
      'ShippedDate': '1996-09-11T00:00:00.000Z',
      'Freight': 168.22,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
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      'CustomerID': 'RICAR',
      'OrderDate': '1996-09-06T00:00:00.000Z',
      'ShippedDate': '1996-09-13T00:00:00.000Z',
      'Freight': 29.76,
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      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10300,
      'CustomerID': 'MAGAA',
      'OrderDate': '1996-09-09T00:00:00.000Z',
      'ShippedDate': '1996-09-18T00:00:00.000Z',
      'Freight': 17.68,
      'ShipName': 'Magazzini Alimentari Riuniti',
      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10301,
      'CustomerID': 'WANDK',
      'OrderDate': '1996-09-09T00:00:00.000Z',
      'ShippedDate': '1996-09-17T00:00:00.000Z',
      'Freight': 45.08,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10302,
      'CustomerID': 'SUPRD',
      'OrderDate': '1996-09-10T00:00:00.000Z',
      'ShippedDate': '1996-10-09T00:00:00.000Z',
      'Freight': 6.27,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,

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    'ShipCountry': 'Belgium'
  },
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    'CustomerID': 'GODOS',
    'OrderDate': '1996-09-11T00:00:00.000Z',
    'ShippedDate': '1996-09-18T00:00:00.000Z',
    'Freight': 107.83,
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    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
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    'CustomerID': 'TORTU',
    'OrderDate': '1996-09-12T00:00:00.000Z',
    'ShippedDate': '1996-09-17T00:00:00.000Z',
    'Freight': 63.79,
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    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10305,
    'CustomerID': 'OLDWO',
    'OrderDate': '1996-09-13T00:00:00.000Z',
    'ShippedDate': '1996-10-09T00:00:00.000Z',
    'Freight': 257.62,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10306,
    'CustomerID': 'ROMEY',
    'OrderDate': '1996-09-16T00:00:00.000Z',
    'ShippedDate': '1996-09-23T00:00:00.000Z',
    'Freight': 7.56,
    'ShipName': 'Romero y tomillo',
    'ShipAddress': 'Gran Vía, 1',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10307,
    'CustomerID': 'LONEP',
    'OrderDate': '1996-09-17T00:00:00.000Z',
    'ShippedDate': '1996-09-25T00:00:00.000Z',
    'Freight': 0.56,
    'ShipName': 'Lonesome Pine Restaurant',

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      'ShipAddress': '89 Chiaroscuro Rd.',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
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      'CustomerID': 'ANATR',
      'OrderDate': '1996-09-18T00:00:00.000Z',
      'ShippedDate': '1996-09-24T00:00:00.000Z',
      'Freight': 1.61,
      'ShipName': 'Ana Trujillo Emparedados y helados',
      'ShipAddress': 'Avda. de la Constitución 2222',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10309,
      'CustomerID': 'HUNGO',
      'OrderDate': '1996-09-19T00:00:00.000Z',
      'ShippedDate': '1996-10-23T00:00:00.000Z',
      'Freight': 47.3,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
      'OrderID': 10310,
      'CustomerID': 'THEBI',
      'OrderDate': '1996-09-20T00:00:00.000Z',
      'ShippedDate': '1996-09-27T00:00:00.000Z',
      'Freight': 17.52,
      'ShipName': 'The Big Cheese',
      'ShipAddress': '89 Jefferson Way Suite 2',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10311,
      'CustomerID': 'DUMON',
      'OrderDate': '1996-09-20T00:00:00.000Z',
      'ShippedDate': '1996-09-26T00:00:00.000Z',
      'Freight': 24.69,
      'ShipName': 'Du monde entier',
      'ShipAddress': '67, rue des Cinquante Otages',
      'ShipCity': 'Nantes',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10312,
      'CustomerID': 'WANDK',
      'OrderDate': '1996-09-23T00:00:00.000Z',

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    'ShippedDate': '1996-10-03T00:00:00.000Z',
    'Freight': 40.26,
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    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10313,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-09-24T00:00:00.000Z',
    'ShippedDate': '1996-10-04T00:00:00.000Z',
    'Freight': 1.96,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10314,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-09-25T00:00:00.000Z',
    'ShippedDate': '1996-10-04T00:00:00.000Z',
    'Freight': 74.16,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10315,
    'CustomerID': 'ISLAT',
    'OrderDate': '1996-09-26T00:00:00.000Z',
    'ShippedDate': '1996-10-03T00:00:00.000Z',
    'Freight': 41.76,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10316,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-09-27T00:00:00.000Z',
    'ShippedDate': '1996-10-08T00:00:00.000Z',
    'Freight': 150.15,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  }
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    'OrderDate': '1996-09-30T00:00:00.000Z',
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    'Freight': 12.69,
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    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10318,
    'CustomerID': 'ISLAT',
    'OrderDate': '1996-10-01T00:00:00.000Z',
    'ShippedDate': '1996-10-04T00:00:00.000Z',
    'Freight': 4.73,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10319,
    'CustomerID': 'TORTU',
    'OrderDate': '1996-10-02T00:00:00.000Z',
    'ShippedDate': '1996-10-11T00:00:00.000Z',
    'Freight': 64.5,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10320,
    'CustomerID': 'WARTH',
    'OrderDate': '1996-10-03T00:00:00.000Z',
    'ShippedDate': '1996-10-18T00:00:00.000Z',
    'Freight': 34.57,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10321,
    'CustomerID': 'ISLAT',
    'OrderDate': '1996-10-03T00:00:00.000Z',
    'ShippedDate': '1996-10-11T00:00:00.000Z',
    'Freight': 3.43,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',

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    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'PERIC',
    'OrderDate': '1996-10-04T00:00:00.000Z',
    'ShippedDate': '1996-10-23T00:00:00.000Z',
    'Freight': 0.4,
    'ShipName': 'Pericles Comidas clásicas',
    'ShipAddress': 'Calle Dr. Jorge Cash 321',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10323,
    'CustomerID': 'KOENE',
    'OrderDate': '1996-10-07T00:00:00.000Z',
    'ShippedDate': '1996-10-14T00:00:00.000Z',
    'Freight': 4.88,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10324,
    'CustomerID': 'SAVEA',
    'OrderDate': '1996-10-08T00:00:00.000Z',
    'ShippedDate': '1996-10-10T00:00:00.000Z',
    'Freight': 214.27,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10325,
    'CustomerID': 'KOENE',
    'OrderDate': '1996-10-09T00:00:00.000Z',
    'ShippedDate': '1996-10-14T00:00:00.000Z',
    'Freight': 64.86,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10326,
    'CustomerID': 'BOLID',
    'OrderDate': '1996-10-10T00:00:00.000Z',
    'ShippedDate': '1996-10-14T00:00:00.000Z',
    'Freight': 77.92,
    'ShipName': 'Bólido Comidas preparadas',

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      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
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      'CustomerID': 'FOLKO',
      'OrderDate': '1996-10-11T00:00:00.000Z',
      'ShippedDate': '1996-10-14T00:00:00.000Z',
      'Freight': 63.36,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10328,
      'CustomerID': 'FURIB',
      'OrderDate': '1996-10-14T00:00:00.000Z',
      'ShippedDate': '1996-10-17T00:00:00.000Z',
      'Freight': 87.03,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',
      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 10329,
      'CustomerID': 'SPLIR',
      'OrderDate': '1996-10-15T00:00:00.000Z',
      'ShippedDate': '1996-10-23T00:00:00.000Z',
      'Freight': 191.67,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10330,
      'CustomerID': 'LILAS',
      'OrderDate': '1996-10-16T00:00:00.000Z',
      'ShippedDate': '1996-10-28T00:00:00.000Z',
      'Freight': 12.75,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10331,
      'CustomerID': 'BONAP',
      'OrderDate': '1996-10-16T00:00:00.000Z',

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    'ShippedDate': '1996-10-21T00:00:00.000Z',
    'Freight': 10.19,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10332,
    'CustomerID': 'MEREP',
    'OrderDate': '1996-10-17T00:00:00.000Z',
    'ShippedDate': '1996-10-21T00:00:00.000Z',
    'Freight': 52.84,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10333,
    'CustomerID': 'WARTH',
    'OrderDate': '1996-10-18T00:00:00.000Z',
    'ShippedDate': '1996-10-25T00:00:00.000Z',
    'Freight': 0.59,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10334,
    'CustomerID': 'VICTE',
    'OrderDate': '1996-10-21T00:00:00.000Z',
    'ShippedDate': '1996-10-28T00:00:00.000Z',
    'Freight': 8.56,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10335,
    'CustomerID': 'HUNGO',
    'OrderDate': '1996-10-22T00:00:00.000Z',
    'ShippedDate': '1996-10-24T00:00:00.000Z',
    'Freight': 42.11,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
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      'OrderID': 10336,
      'CustomerID': 'PRINI',
      'OrderDate': '1996-10-23T00:00:00.000Z',
      'ShippedDate': '1996-10-25T00:00:00.000Z',
      'Freight': 15.51,
      'ShipName': 'Princesa Isabel Vinhos',
      'ShipAddress': 'Estrada da saúde n. 58',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 10337,
      'CustomerID': 'FRANK',
      'OrderDate': '1996-10-24T00:00:00.000Z',
      'ShippedDate': '1996-10-29T00:00:00.000Z',
      'Freight': 108.26,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10338,
      'CustomerID': 'OLDWO',
      'OrderDate': '1996-10-25T00:00:00.000Z',
      'ShippedDate': '1996-10-29T00:00:00.000Z',
      'Freight': 84.21,
      'ShipName': 'Old World Delicatessen',
      'ShipAddress': '2743 Bering St.',
      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10339,
      'CustomerID': 'MEREP',
      'OrderDate': '1996-10-28T00:00:00.000Z',
      'ShippedDate': '1996-11-04T00:00:00.000Z',
      'Freight': 15.66,
      'ShipName': 'Mère Paillarde',
      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10340,
      'CustomerID': 'BONAP',
      'OrderDate': '1996-10-29T00:00:00.000Z',
      'ShippedDate': '1996-11-08T00:00:00.000Z',
      'Freight': 166.31,
      'ShipName': 'Bon app',
      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,

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    'ShipCountry': 'France'
  },
  {
    'OrderID': 10341,
    'CustomerID': 'SIMOB',
    'OrderDate': '1996-10-29T00:00:00.000Z',
    'ShippedDate': '1996-11-05T00:00:00.000Z',
    'Freight': 26.78,
    'ShipName': 'Simons bistro',
    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10342,
    'CustomerID': 'FRANK',
    'OrderDate': '1996-10-30T00:00:00.000Z',
    'ShippedDate': '1996-11-04T00:00:00.000Z',
    'Freight': 54.83,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10343,
    'CustomerID': 'LEHMS',
    'OrderDate': '1996-10-31T00:00:00.000Z',
    'ShippedDate': '1996-11-06T00:00:00.000Z',
    'Freight': 110.37,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10344,
    'CustomerID': 'WHITC',
    'OrderDate': '1996-11-01T00:00:00.000Z',
    'ShippedDate': '1996-11-05T00:00:00.000Z',
    'Freight': 23.29,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10345,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-11-04T00:00:00.000Z',
    'ShippedDate': '1996-11-11T00:00:00.000Z',
    'Freight': 249.06,
    'ShipName': 'QUICK-Stop',

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      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10346,
      'CustomerID': 'RATTC',
      'OrderDate': '1996-11-05T00:00:00.000Z',
      'ShippedDate': '1996-11-08T00:00:00.000Z',
      'Freight': 142.08,
      'ShipName': 'Rattlesnake Canyon Grocery',
      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10347,
      'CustomerID': 'FAMIA',
      'OrderDate': '1996-11-06T00:00:00.000Z',
      'ShippedDate': '1996-11-08T00:00:00.000Z',
      'Freight': 3.1,
      'ShipName': 'Familia Arquibaldo',
      'ShipAddress': 'Rua Orós, 92',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10348,
      'CustomerID': 'WANDK',
      'OrderDate': '1996-11-07T00:00:00.000Z',
      'ShippedDate': '1996-11-15T00:00:00.000Z',
      'Freight': 0.78,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10349,
      'CustomerID': 'SPLIR',
      'OrderDate': '1996-11-08T00:00:00.000Z',
      'ShippedDate': '1996-11-15T00:00:00.000Z',
      'Freight': 8.63,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10350,
      'CustomerID': 'LAMAI',
      'OrderDate': '1996-11-11T00:00:00.000Z',

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      'ShippedDate': '1996-12-03T00:00:00.000Z',
      'Freight': 64.19,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10351,
      'CustomerID': 'ERNSH',
      'OrderDate': '1996-11-11T00:00:00.000Z',
      'ShippedDate': '1996-11-20T00:00:00.000Z',
      'Freight': 162.33,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10352,
      'CustomerID': 'FURIB',
      'OrderDate': '1996-11-12T00:00:00.000Z',
      'ShippedDate': '1996-11-18T00:00:00.000Z',
      'Freight': 1.3,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',
      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 10353,
      'CustomerID': 'PICCO',
      'OrderDate': '1996-11-13T00:00:00.000Z',
      'ShippedDate': '1996-11-25T00:00:00.000Z',
      'Freight': 360.63,
      'ShipName': 'Piccolo und mehr',
      'ShipAddress': 'Geislweg 14',
      'ShipCity': 'Salzburg',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10354,
      'CustomerID': 'PERIC',
      'OrderDate': '1996-11-14T00:00:00.000Z',
      'ShippedDate': '1996-11-20T00:00:00.000Z',
      'Freight': 53.8,
      'ShipName': 'Pericles Comidas clásicas',
      'ShipAddress': 'Calle Dr. Jorge Cash 321',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    }
  ],
  {

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    'OrderID': 10355,
    'CustomerID': 'AROUT',
    'OrderDate': '1996-11-15T00:00:00.000Z',
    'ShippedDate': '1996-11-20T00:00:00.000Z',
    'Freight': 41.95,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10356,
    'CustomerID': 'WANDK',
    'OrderDate': '1996-11-18T00:00:00.000Z',
    'ShippedDate': '1996-11-27T00:00:00.000Z',
    'Freight': 36.71,
    'ShipName': 'Die Wandernde Kuh',
    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10357,
    'CustomerID': 'LILAS',
    'OrderDate': '1996-11-19T00:00:00.000Z',
    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 34.88,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10358,
    'CustomerID': 'LAMAI',
    'OrderDate': '1996-11-20T00:00:00.000Z',
    'ShippedDate': '1996-11-27T00:00:00.000Z',
    'Freight': 19.64,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10359,
    'CustomerID': 'SEVES',
    'OrderDate': '1996-11-21T00:00:00.000Z',
    'ShippedDate': '1996-11-26T00:00:00.000Z',
    'Freight': 288.43,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,

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    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10360,
    'CustomerID': 'BLONP',
    'OrderDate': '1996-11-22T00:00:00.000Z',
    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 131.7,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10361,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-11-22T00:00:00.000Z',
    'ShippedDate': '1996-12-03T00:00:00.000Z',
    'Freight': 183.17,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10362,
    'CustomerID': 'BONAP',
    'OrderDate': '1996-11-25T00:00:00.000Z',
    'ShippedDate': '1996-11-28T00:00:00.000Z',
    'Freight': 96.04,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10363,
    'CustomerID': 'DRACD',
    'OrderDate': '1996-11-26T00:00:00.000Z',
    'ShippedDate': '1996-12-04T00:00:00.000Z',
    'Freight': 30.54,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10364,
    'CustomerID': 'EASTC',
    'OrderDate': '1996-11-26T00:00:00.000Z',
    'ShippedDate': '1996-12-04T00:00:00.000Z',
    'Freight': 71.97,
    'ShipName': 'Eastern Connection',

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      'ShipAddress': '35 King George',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10365,
      'CustomerID': 'ANTON',
      'OrderDate': '1996-11-27T00:00:00.000Z',
      'ShippedDate': '1996-12-02T00:00:00.000Z',
      'Freight': 22,
      'ShipName': 'Antonio Moreno Taquería',
      'ShipAddress': 'Mataderos 2312',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10366,
      'CustomerID': 'GALED',
      'OrderDate': '1996-11-28T00:00:00.000Z',
      'ShippedDate': '1996-12-30T00:00:00.000Z',
      'Freight': 10.14,
      'ShipName': 'Galería del gastronómo',
      'ShipAddress': 'Rambla de Cataluña, 23',
      'ShipCity': 'Barcelona',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10367,
      'CustomerID': 'VAFFE',
      'OrderDate': '1996-11-28T00:00:00.000Z',
      'ShippedDate': '1996-12-02T00:00:00.000Z',
      'Freight': 13.55,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10368,
      'CustomerID': 'ERNSH',
      'OrderDate': '1996-11-29T00:00:00.000Z',
      'ShippedDate': '1996-12-02T00:00:00.000Z',
      'Freight': 101.95,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10369,
      'CustomerID': 'SPLIR',
      'OrderDate': '1996-12-02T00:00:00.000Z',

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      'ShippedDate': '1996-12-09T00:00:00.000Z',
      'Freight': 195.68,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10370,
      'CustomerID': 'CHOPS',
      'OrderDate': '1996-12-03T00:00:00.000Z',
      'ShippedDate': '1996-12-27T00:00:00.000Z',
      'Freight': 1.17,
      'ShipName': 'Chop-suey Chinese',
      'ShipAddress': 'Hauptstr. 31',
      'ShipCity': 'Bern',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10371,
      'CustomerID': 'LAMAI',
      'OrderDate': '1996-12-03T00:00:00.000Z',
      'ShippedDate': '1996-12-24T00:00:00.000Z',
      'Freight': 0.45,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10372,
      'CustomerID': 'QUEEN',
      'OrderDate': '1996-12-04T00:00:00.000Z',
      'ShippedDate': '1996-12-09T00:00:00.000Z',
      'Freight': 890.78,
      'ShipName': 'Queen Cozinha',
      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10373,
      'CustomerID': 'HUNGO',
      'OrderDate': '1996-12-05T00:00:00.000Z',
      'ShippedDate': '1996-12-11T00:00:00.000Z',
      'Freight': 124.12,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    }
  ],
  {

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      'OrderID': 10374,
      'CustomerID': 'WOLZA',
      'OrderDate': '1996-12-05T00:00:00.000Z',
      'ShippedDate': '1996-12-09T00:00:00.000Z',
      'Freight': 3.94,
      'ShipName': 'Wolski Zajazd',
      'ShipAddress': 'ul. Filtrowa 68',
      'ShipCity': 'Warszawa',
      'ShipRegion': null,
      'ShipCountry': 'Poland'
    },
    {
      'OrderID': 10375,
      'CustomerID': 'HUNGC',
      'OrderDate': '1996-12-06T00:00:00.000Z',
      'ShippedDate': '1996-12-09T00:00:00.000Z',
      'Freight': 20.12,
      'ShipName': 'Hungry Coyote Import Store',
      'ShipAddress': 'City Center Plaza 516 Main St.',
      'ShipCity': 'Elgin',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10376,
      'CustomerID': 'MEREP',
      'OrderDate': '1996-12-09T00:00:00.000Z',
      'ShippedDate': '1996-12-13T00:00:00.000Z',
      'Freight': 20.39,
      'ShipName': 'Mère Paillarde',
      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10377,
      'CustomerID': 'SEVES',
      'OrderDate': '1996-12-09T00:00:00.000Z',
      'ShippedDate': '1996-12-13T00:00:00.000Z',
      'Freight': 22.21,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10378,
      'CustomerID': 'FOLKO',
      'OrderDate': '1996-12-10T00:00:00.000Z',
      'ShippedDate': '1996-12-19T00:00:00.000Z',
      'Freight': 5.44,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,

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    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10379,
    'CustomerID': 'QUEDE',
    'OrderDate': '1996-12-11T00:00:00.000Z',
    'ShippedDate': '1996-12-13T00:00:00.000Z',
    'Freight': 45.03,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10380,
    'CustomerID': 'HUNGO',
    'OrderDate': '1996-12-12T00:00:00.000Z',
    'ShippedDate': '1997-01-16T00:00:00.000Z',
    'Freight': 35.03,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10381,
    'CustomerID': 'LILAS',
    'OrderDate': '1996-12-12T00:00:00.000Z',
    'ShippedDate': '1996-12-13T00:00:00.000Z',
    'Freight': 7.99,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10382,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-12-13T00:00:00.000Z',
    'ShippedDate': '1996-12-16T00:00:00.000Z',
    'Freight': 94.77,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10383,
    'CustomerID': 'AROUT',
    'OrderDate': '1996-12-16T00:00:00.000Z',
    'ShippedDate': '1996-12-18T00:00:00.000Z',
    'Freight': 34.24,
    'ShipName': 'Around the Horn',

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      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10384,
      'CustomerID': 'BERGS',
      'OrderDate': '1996-12-16T00:00:00.000Z',
      'ShippedDate': '1996-12-20T00:00:00.000Z',
      'Freight': 168.64,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10385,
      'CustomerID': 'SPLIR',
      'OrderDate': '1996-12-17T00:00:00.000Z',
      'ShippedDate': '1996-12-23T00:00:00.000Z',
      'Freight': 30.96,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10386,
      'CustomerID': 'FAMIA',
      'OrderDate': '1996-12-18T00:00:00.000Z',
      'ShippedDate': '1996-12-25T00:00:00.000Z',
      'Freight': 13.99,
      'ShipName': 'Familia Arquibaldo',
      'ShipAddress': 'Rua Orós, 92',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10387,
      'CustomerID': 'SANTG',
      'OrderDate': '1996-12-18T00:00:00.000Z',
      'ShippedDate': '1996-12-20T00:00:00.000Z',
      'Freight': 93.63,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkes gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    },
    {
      'OrderID': 10388,
      'CustomerID': 'SEVES',
      'OrderDate': '1996-12-19T00:00:00.000Z',

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    'ShippedDate': '1996-12-20T00:00:00.000Z',
    'Freight': 34.86,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10389,
    'CustomerID': 'BOTTM',
    'OrderDate': '1996-12-20T00:00:00.000Z',
    'ShippedDate': '1996-12-24T00:00:00.000Z',
    'Freight': 47.42,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10390,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-12-23T00:00:00.000Z',
    'ShippedDate': '1996-12-26T00:00:00.000Z',
    'Freight': 126.38,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10391,
    'CustomerID': 'DRACD',
    'OrderDate': '1996-12-23T00:00:00.000Z',
    'ShippedDate': '1996-12-31T00:00:00.000Z',
    'Freight': 5.45,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10392,
    'CustomerID': 'PICCO',
    'OrderDate': '1996-12-24T00:00:00.000Z',
    'ShippedDate': '1997-01-01T00:00:00.000Z',
    'Freight': 122.46,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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    'OrderDate': '1996-12-25T00:00:00.000Z',
    'ShippedDate': '1997-01-03T00:00:00.000Z',
    'Freight': 126.56,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'HUNGC',
    'OrderDate': '1996-12-25T00:00:00.000Z',
    'ShippedDate': '1997-01-03T00:00:00.000Z',
    'Freight': 30.34,
    'ShipName': 'Hungry Coyote Import Store',
    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10395,
    'CustomerID': 'HILAA',
    'OrderDate': '1996-12-26T00:00:00.000Z',
    'ShippedDate': '1997-01-03T00:00:00.000Z',
    'Freight': 184.41,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'FRANK',
    'OrderDate': '1996-12-27T00:00:00.000Z',
    'ShippedDate': '1997-01-06T00:00:00.000Z',
    'Freight': 135.35,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10397,
    'CustomerID': 'PRINI',
    'OrderDate': '1996-12-27T00:00:00.000Z',
    'ShippedDate': '1997-01-02T00:00:00.000Z',
    'Freight': 60.26,
    'ShipName': 'Princesa Isabel Vinhos',
    'ShipAddress': 'Estrada da saúde n. 58',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
  }

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    'ShipCountry': 'Portugal'
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    'OrderDate': '1996-12-30T00:00:00.000Z',
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    'Freight': 89.16,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10399,
    'CustomerID': 'VAFFE',
    'OrderDate': '1996-12-31T00:00:00.000Z',
    'ShippedDate': '1997-01-08T00:00:00.000Z',
    'Freight': 27.36,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10400,
    'CustomerID': 'EASTC',
    'OrderDate': '1997-01-01T00:00:00.000Z',
    'ShippedDate': '1997-01-16T00:00:00.000Z',
    'Freight': 83.93,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10401,
    'CustomerID': 'RATTC',
    'OrderDate': '1997-01-01T00:00:00.000Z',
    'ShippedDate': '1997-01-10T00:00:00.000Z',
    'Freight': 12.51,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10402,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-01-02T00:00:00.000Z',
    'ShippedDate': '1997-01-10T00:00:00.000Z',
    'Freight': 67.88,
    'ShipName': 'Ernst Handel',

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      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
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      'CustomerID': 'ERNSH',
      'OrderDate': '1997-01-03T00:00:00.000Z',
      'ShippedDate': '1997-01-09T00:00:00.000Z',
      'Freight': 73.79,
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      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10404,
      'CustomerID': 'MAGAA',
      'OrderDate': '1997-01-03T00:00:00.000Z',
      'ShippedDate': '1997-01-08T00:00:00.000Z',
      'Freight': 155.97,
      'ShipName': 'Magazzini Alimentari Riuniti',
      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10405,
      'CustomerID': 'LINOD',
      'OrderDate': '1997-01-06T00:00:00.000Z',
      'ShippedDate': '1997-01-22T00:00:00.000Z',
      'Freight': 34.82,
      'ShipName': 'LINO-Delicateses',
      'ShipAddress': 'Ave. 5 de Mayo Porlamar',
      'ShipCity': 'I. de Margarita',
      'ShipRegion': 'Nueva Esparta',
      'ShipCountry': 'Venezuela'
    },
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      'CustomerID': 'QUEEN',
      'OrderDate': '1997-01-07T00:00:00.000Z',
      'ShippedDate': '1997-01-13T00:00:00.000Z',
      'Freight': 108.04,
      'ShipName': 'Queen Cozinha',
      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'OTTIK',
      'OrderDate': '1997-01-07T00:00:00.000Z',

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    'ShippedDate': '1997-01-30T00:00:00.000Z',
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    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'FOLIG',
    'OrderDate': '1997-01-08T00:00:00.000Z',
    'ShippedDate': '1997-01-14T00:00:00.000Z',
    'Freight': 11.26,
    'ShipName': 'Folies gourmandes',
    'ShipAddress': '184, chaussée de Tournai',
    'ShipCity': 'Lille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10409,
    'CustomerID': 'OCEAN',
    'OrderDate': '1997-01-09T00:00:00.000Z',
    'ShippedDate': '1997-01-14T00:00:00.000Z',
    'Freight': 29.83,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10410,
    'CustomerID': 'BOTTM',
    'OrderDate': '1997-01-10T00:00:00.000Z',
    'ShippedDate': '1997-01-15T00:00:00.000Z',
    'Freight': 2.4,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10411,
    'CustomerID': 'BOTTM',
    'OrderDate': '1997-01-10T00:00:00.000Z',
    'ShippedDate': '1997-01-21T00:00:00.000Z',
    'Freight': 23.65,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
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    'OrderDate': '1997-01-13T00:00:00.000Z',
    'ShippedDate': '1997-01-15T00:00:00.000Z',
    'Freight': 3.77,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10413,
    'CustomerID': 'LAMAI',
    'OrderDate': '1997-01-14T00:00:00.000Z',
    'ShippedDate': '1997-01-16T00:00:00.000Z',
    'Freight': 95.66,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10414,
    'CustomerID': 'FAMIA',
    'OrderDate': '1997-01-14T00:00:00.000Z',
    'ShippedDate': '1997-01-17T00:00:00.000Z',
    'Freight': 21.48,
    'ShipName': 'Familia Arquibaldo',
    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10415,
    'CustomerID': 'HUNGC',
    'OrderDate': '1997-01-15T00:00:00.000Z',
    'ShippedDate': '1997-01-24T00:00:00.000Z',
    'Freight': 0.2,
    'ShipName': 'Hungry Coyote Import Store',
    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'WARTH',
    'OrderDate': '1997-01-16T00:00:00.000Z',
    'ShippedDate': '1997-01-27T00:00:00.000Z',
    'Freight': 22.72,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,

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    'ShipCountry': 'Finland'
  },
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    'CustomerID': 'SIMOB',
    'OrderDate': '1997-01-16T00:00:00.000Z',
    'ShippedDate': '1997-01-28T00:00:00.000Z',
    'Freight': 70.29,
    'ShipName': 'Simons bistro',
    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10418,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-01-17T00:00:00.000Z',
    'ShippedDate': '1997-01-24T00:00:00.000Z',
    'Freight': 17.55,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10419,
    'CustomerID': 'RICSU',
    'OrderDate': '1997-01-20T00:00:00.000Z',
    'ShippedDate': '1997-01-30T00:00:00.000Z',
    'Freight': 137.35,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10420,
    'CustomerID': 'WELLI',
    'OrderDate': '1997-01-21T00:00:00.000Z',
    'ShippedDate': '1997-01-27T00:00:00.000Z',
    'Freight': 44.12,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10421,
    'CustomerID': 'QUEDE',
    'OrderDate': '1997-01-21T00:00:00.000Z',
    'ShippedDate': '1997-01-27T00:00:00.000Z',
    'Freight': 99.23,
    'ShipName': 'Que Delícia',

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      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
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      'OrderID': 10422,
      'CustomerID': 'FRANS',
      'OrderDate': '1997-01-22T00:00:00.000Z',
      'ShippedDate': '1997-01-31T00:00:00.000Z',
      'Freight': 3.02,
      'ShipName': 'Franchi S.p.A.',
      'ShipAddress': 'Via Monte Bianco 34',
      'ShipCity': 'Torino',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10423,
      'CustomerID': 'GOURL',
      'OrderDate': '1997-01-23T00:00:00.000Z',
      'ShippedDate': '1997-02-24T00:00:00.000Z',
      'Freight': 24.5,
      'ShipName': 'Gourmet Lanchonetes',
      'ShipAddress': 'Av. Brasil, 442',
      'ShipCity': 'Campinas',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10424,
      'CustomerID': 'MEREPA',
      'OrderDate': '1997-01-23T00:00:00.000Z',
      'ShippedDate': '1997-01-27T00:00:00.000Z',
      'Freight': 370.61,
      'ShipName': 'Mère Paillarde',
      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10425,
      'CustomerID': 'LAMAI',
      'OrderDate': '1997-01-24T00:00:00.000Z',
      'ShippedDate': '1997-02-14T00:00:00.000Z',
      'Freight': 7.93,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10426,
      'CustomerID': 'GALED',
      'OrderDate': '1997-01-27T00:00:00.000Z',

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      'ShippedDate': '1997-02-06T00:00:00.000Z',
      'Freight': 18.69,
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      'ShipAddress': 'Rambla de Cataluña, 23',
      'ShipCity': 'Barcelona',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
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      'CustomerID': 'PICCO',
      'OrderDate': '1997-01-27T00:00:00.000Z',
      'ShippedDate': '1997-03-03T00:00:00.000Z',
      'Freight': 31.29,
      'ShipName': 'Piccolo und mehr',
      'ShipAddress': 'Geislweg 14',
      'ShipCity': 'Salzburg',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10428,
      'CustomerID': 'REGGC',
      'OrderDate': '1997-01-28T00:00:00.000Z',
      'ShippedDate': '1997-02-04T00:00:00.000Z',
      'Freight': 11.09,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10429,
      'CustomerID': 'HUNGO',
      'OrderDate': '1997-01-29T00:00:00.000Z',
      'ShippedDate': '1997-02-07T00:00:00.000Z',
      'Freight': 56.63,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
      'OrderID': 10430,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-01-30T00:00:00.000Z',
      'ShippedDate': '1997-02-03T00:00:00.000Z',
      'Freight': 458.78,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    }
  ],
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    'Freight': 44.17,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10432,
    'CustomerID': 'SPLIR',
    'OrderDate': '1997-01-31T00:00:00.000Z',
    'ShippedDate': '1997-02-07T00:00:00.000Z',
    'Freight': 4.34,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10433,
    'CustomerID': 'PRINI',
    'OrderDate': '1997-02-03T00:00:00.000Z',
    'ShippedDate': '1997-03-04T00:00:00.000Z',
    'Freight': 73.83,
    'ShipName': 'Princesa Isabel Vinhos',
    'ShipAddress': 'Estrada da saúde n. 58',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10434,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-02-03T00:00:00.000Z',
    'ShippedDate': '1997-02-13T00:00:00.000Z',
    'Freight': 17.92,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10435,
    'CustomerID': 'CONSH',
    'OrderDate': '1997-02-04T00:00:00.000Z',
    'ShippedDate': '1997-02-07T00:00:00.000Z',
    'Freight': 9.21,
    'ShipName': 'Consolidated Holdings',
    'ShipAddress': 'Berkeley Gardens 12 Brewery',
    'ShipCity': 'London',
    'ShipRegion': null,
  }

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    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'BLONP',
    'OrderDate': '1997-02-05T00:00:00.000Z',
    'ShippedDate': '1997-02-11T00:00:00.000Z',
    'Freight': 156.66,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10437,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-02-05T00:00:00.000Z',
    'ShippedDate': '1997-02-12T00:00:00.000Z',
    'Freight': 19.97,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10438,
    'CustomerID': 'TOMSP',
    'OrderDate': '1997-02-06T00:00:00.000Z',
    'ShippedDate': '1997-02-14T00:00:00.000Z',
    'Freight': 8.24,
    'ShipName': 'Toms Spezialitäten',
    'ShipAddress': 'Luisenstr. 48',
    'ShipCity': 'Münster',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10439,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-02-07T00:00:00.000Z',
    'ShippedDate': '1997-02-10T00:00:00.000Z',
    'Freight': 4.07,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10440,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-02-10T00:00:00.000Z',
    'ShippedDate': '1997-02-28T00:00:00.000Z',
    'Freight': 86.53,
    'ShipName': 'Save-a-lot Markets',

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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'OLDWO',
      'OrderDate': '1997-02-10T00:00:00.000Z',
      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 73.02,
      'ShipName': 'Old World Delicatessen',
      'ShipAddress': '2743 Bering St.',
      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10442,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-02-11T00:00:00.000Z',
      'ShippedDate': '1997-02-18T00:00:00.000Z',
      'Freight': 47.94,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10443,
      'CustomerID': 'REGGC',
      'OrderDate': '1997-02-12T00:00:00.000Z',
      'ShippedDate': '1997-02-14T00:00:00.000Z',
      'Freight': 13.95,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
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      'OrderID': 10444,
      'CustomerID': 'BERGS',
      'OrderDate': '1997-02-12T00:00:00.000Z',
      'ShippedDate': '1997-02-21T00:00:00.000Z',
      'Freight': 3.5,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'BERGS',
      'OrderDate': '1997-02-13T00:00:00.000Z',

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    'ShippedDate': '1997-02-20T00:00:00.000Z',
    'Freight': 9.3,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
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    'CustomerID': 'TOMSP',
    'OrderDate': '1997-02-14T00:00:00.000Z',
    'ShippedDate': '1997-02-19T00:00:00.000Z',
    'Freight': 14.68,
    'ShipName': 'Toms Spezialitäten',
    'ShipAddress': 'Luisenstr. 48',
    'ShipCity': 'Münster',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10447,
    'CustomerID': 'RICAR',
    'OrderDate': '1997-02-14T00:00:00.000Z',
    'ShippedDate': '1997-03-07T00:00:00.000Z',
    'Freight': 68.66,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10448,
    'CustomerID': 'RANCH',
    'OrderDate': '1997-02-17T00:00:00.000Z',
    'ShippedDate': '1997-02-24T00:00:00.000Z',
    'Freight': 38.82,
    'ShipName': 'Rancho grande',
    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10449,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-02-18T00:00:00.000Z',
    'ShippedDate': '1997-02-27T00:00:00.000Z',
    'Freight': 53.3,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {

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    'OrderID': 10450,
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    'OrderDate': '1997-02-19T00:00:00.000Z',
    'ShippedDate': '1997-03-11T00:00:00.000Z',
    'Freight': 7.23,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10451,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-02-19T00:00:00.000Z',
    'ShippedDate': '1997-03-12T00:00:00.000Z',
    'Freight': 189.09,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10452,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-02-20T00:00:00.000Z',
    'ShippedDate': '1997-02-26T00:00:00.000Z',
    'Freight': 140.26,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10453,
    'CustomerID': 'AROUT',
    'OrderDate': '1997-02-21T00:00:00.000Z',
    'ShippedDate': '1997-02-26T00:00:00.000Z',
    'Freight': 25.36,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10454,
    'CustomerID': 'LAMAI',
    'OrderDate': '1997-02-21T00:00:00.000Z',
    'ShippedDate': '1997-02-25T00:00:00.000Z',
    'Freight': 2.74,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
  {
    'OrderID': 10455,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-02-24T00:00:00.000Z',
    'ShippedDate': '1997-03-03T00:00:00.000Z',
    'Freight': 180.45,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10456,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-02-25T00:00:00.000Z',
    'ShippedDate': '1997-02-28T00:00:00.000Z',
    'Freight': 8.12,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10457,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-02-25T00:00:00.000Z',
    'ShippedDate': '1997-03-03T00:00:00.000Z',
    'Freight': 11.57,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10458,
    'CustomerID': 'SUPRD',
    'OrderDate': '1997-02-26T00:00:00.000Z',
    'ShippedDate': '1997-03-04T00:00:00.000Z',
    'Freight': 147.06,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10459,
    'CustomerID': 'VICTE',
    'OrderDate': '1997-02-27T00:00:00.000Z',
    'ShippedDate': '1997-02-28T00:00:00.000Z',
    'Freight': 25.09,
    'ShipName': 'Victuailles en stock',

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      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'FOLKO',
      'OrderDate': '1997-02-28T00:00:00.000Z',
      'ShippedDate': '1997-03-03T00:00:00.000Z',
      'Freight': 16.27,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10461,
      'CustomerID': 'LILAS',
      'OrderDate': '1997-02-28T00:00:00.000Z',
      'ShippedDate': '1997-03-05T00:00:00.000Z',
      'Freight': 148.61,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10462,
      'CustomerID': 'CONSH',
      'OrderDate': '1997-03-03T00:00:00.000Z',
      'ShippedDate': '1997-03-18T00:00:00.000Z',
      'Freight': 6.17,
      'ShipName': 'Consolidated Holdings',
      'ShipAddress': 'Berkeley Gardens 12 Brewery',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10463,
      'CustomerID': 'SUPRD',
      'OrderDate': '1997-03-04T00:00:00.000Z',
      'ShippedDate': '1997-03-06T00:00:00.000Z',
      'Freight': 14.78,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
      'OrderID': 10464,
      'CustomerID': 'FURIB',
      'OrderDate': '1997-03-04T00:00:00.000Z',

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      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 89,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',
      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 10465,
      'CustomerID': 'VAFFE',
      'OrderDate': '1997-03-05T00:00:00.000Z',
      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 145.04,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10466,
      'CustomerID': 'COMMI',
      'OrderDate': '1997-03-06T00:00:00.000Z',
      'ShippedDate': '1997-03-13T00:00:00.000Z',
      'Freight': 11.93,
      'ShipName': 'Comércio Mineiro',
      'ShipAddress': 'Av. dos Lusíadas, 23',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10467,
      'CustomerID': 'MAGAA',
      'OrderDate': '1997-03-06T00:00:00.000Z',
      'ShippedDate': '1997-03-11T00:00:00.000Z',
      'Freight': 4.93,
      'ShipName': 'Magazzini Alimentari Riuniti',
      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10468,
      'CustomerID': 'KOENE',
      'OrderDate': '1997-03-07T00:00:00.000Z',
      'ShippedDate': '1997-03-12T00:00:00.000Z',
      'Freight': 44.12,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    }
  ],
  {

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      'OrderDate': '1997-03-10T00:00:00.000Z',
      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 60.18,
      'ShipName': 'White Clover Markets',
      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10470,
      'CustomerID': 'BONAP',
      'OrderDate': '1997-03-11T00:00:00.000Z',
      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 64.56,
      'ShipName': 'Bon app',
      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'BSBEV',
      'OrderDate': '1997-03-11T00:00:00.000Z',
      'ShippedDate': '1997-03-18T00:00:00.000Z',
      'Freight': 45.59,
      'ShipName': 'B\ Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10472,
      'CustomerID': 'SEVES',
      'OrderDate': '1997-03-12T00:00:00.000Z',
      'ShippedDate': '1997-03-19T00:00:00.000Z',
      'Freight': 4.2,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10473,
      'CustomerID': 'ISLAT',
      'OrderDate': '1997-03-13T00:00:00.000Z',
      'ShippedDate': '1997-03-21T00:00:00.000Z',
      'Freight': 16.37,
      'ShipName': 'Island Trading',
      'ShipAddress': 'Garden House Crowther Way',
      'ShipCity': 'Cowes',
      'ShipRegion': 'Isle of Wight',

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    'ShipCountry': 'UK'
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  {
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    'CustomerID': 'PERIC',
    'OrderDate': '1997-03-13T00:00:00.000Z',
    'ShippedDate': '1997-03-21T00:00:00.000Z',
    'Freight': 83.49,
    'ShipName': 'Pericles Comidas clásicas',
    'ShipAddress': 'Calle Dr. Jorge Cash 321',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10475,
    'CustomerID': 'SUPRD',
    'OrderDate': '1997-03-14T00:00:00.000Z',
    'ShippedDate': '1997-04-04T00:00:00.000Z',
    'Freight': 68.52,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10476,
    'CustomerID': 'HILAA',
    'OrderDate': '1997-03-17T00:00:00.000Z',
    'ShippedDate': '1997-03-24T00:00:00.000Z',
    'Freight': 4.41,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10477,
    'CustomerID': 'PRINI',
    'OrderDate': '1997-03-17T00:00:00.000Z',
    'ShippedDate': '1997-03-25T00:00:00.000Z',
    'Freight': 13.02,
    'ShipName': 'Princesa Isabel Vinhos',
    'ShipAddress': 'Estrada da saúde n. 58',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10478,
    'CustomerID': 'VICTE',
    'OrderDate': '1997-03-18T00:00:00.000Z',
    'ShippedDate': '1997-03-26T00:00:00.000Z',
    'Freight': 4.81,
    'ShipName': 'Victuailles en stock',

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      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'RATTC',
      'OrderDate': '1997-03-19T00:00:00.000Z',
      'ShippedDate': '1997-03-21T00:00:00.000Z',
      'Freight': 708.95,
      'ShipName': 'Rattlesnake Canyon Grocery',
      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10480,
      'CustomerID': 'FOLIG',
      'OrderDate': '1997-03-20T00:00:00.000Z',
      'ShippedDate': '1997-03-24T00:00:00.000Z',
      'Freight': 1.35,
      'ShipName': 'Folies gourmandes',
      'ShipAddress': '184, chaussée de Tournai',
      'ShipCity': 'Lille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10481,
      'CustomerID': 'RICAR',
      'OrderDate': '1997-03-20T00:00:00.000Z',
      'ShippedDate': '1997-03-25T00:00:00.000Z',
      'Freight': 64.33,
      'ShipName': 'Ricardo Adocicados',
      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10482,
      'CustomerID': 'LAZYK',
      'OrderDate': '1997-03-21T00:00:00.000Z',
      'ShippedDate': '1997-04-10T00:00:00.000Z',
      'Freight': 7.48,
      'ShipName': 'Lazy K Kountry Store',
      'ShipAddress': '12 Orchestra Terrace',
      'ShipCity': 'Walla Walla',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10483,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-03-24T00:00:00.000Z',

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    'ShippedDate': '1997-04-25T00:00:00.000Z',
    'Freight': 15.28,
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    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10484,
    'CustomerID': 'BSBEV',
    'OrderDate': '1997-03-24T00:00:00.000Z',
    'ShippedDate': '1997-04-01T00:00:00.000Z',
    'Freight': 6.88,
    'ShipName': 'B\ ' Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10485,
    'CustomerID': 'LINOD',
    'OrderDate': '1997-03-25T00:00:00.000Z',
    'ShippedDate': '1997-03-31T00:00:00.000Z',
    'Freight': 64.45,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10486,
    'CustomerID': 'HILAA',
    'OrderDate': '1997-03-26T00:00:00.000Z',
    'ShippedDate': '1997-04-02T00:00:00.000Z',
    'Freight': 30.53,
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'QUEEN',
    'OrderDate': '1997-03-26T00:00:00.000Z',
    'ShippedDate': '1997-03-28T00:00:00.000Z',
    'Freight': 71.07,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {

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      'CustomerID': 'FRANK',
      'OrderDate': '1997-03-27T00:00:00.000Z',
      'ShippedDate': '1997-04-02T00:00:00.000Z',
      'Freight': 4.93,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10489,
      'CustomerID': 'PICCO',
      'OrderDate': '1997-03-28T00:00:00.000Z',
      'ShippedDate': '1997-04-09T00:00:00.000Z',
      'Freight': 5.29,
      'ShipName': 'Piccolo und mehr',
      'ShipAddress': 'Geislweg 14',
      'ShipCity': 'Salzburg',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10490,
      'CustomerID': 'HILAA',
      'OrderDate': '1997-03-31T00:00:00.000Z',
      'ShippedDate': '1997-04-03T00:00:00.000Z',
      'Freight': 210.19,
      'ShipName': 'HILARION-Abastos',
      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10491,
      'CustomerID': 'FURIB',
      'OrderDate': '1997-03-31T00:00:00.000Z',
      'ShippedDate': '1997-04-08T00:00:00.000Z',
      'Freight': 16.96,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',
      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 10492,
      'CustomerID': 'BOTTM',
      'OrderDate': '1997-04-01T00:00:00.000Z',
      'ShippedDate': '1997-04-11T00:00:00.000Z',
      'Freight': 62.89,
      'ShipName': 'Bottom-Dollar Markets',
      'ShipAddress': '23 Tsawassen Blvd.',
      'ShipCity': 'Tsawassen',
      'ShipRegion': 'BC',

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    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'LAMAI',
    'OrderDate': '1997-04-02T00:00:00.000Z',
    'ShippedDate': '1997-04-10T00:00:00.000Z',
    'Freight': 10.64,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10494,
    'CustomerID': 'COMMI',
    'OrderDate': '1997-04-02T00:00:00.000Z',
    'ShippedDate': '1997-04-09T00:00:00.000Z',
    'Freight': 65.99,
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    'ShipAddress': 'Av. dos Lusíadas, 23',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10495,
    'CustomerID': 'LAUGB',
    'OrderDate': '1997-04-03T00:00:00.000Z',
    'ShippedDate': '1997-04-11T00:00:00.000Z',
    'Freight': 4.65,
    'ShipName': 'Laughing Bacchus Wine Cellars',
    'ShipAddress': '2319 Elm St.',
    'ShipCity': 'Vancouver',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
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    'CustomerID': 'TRADH',
    'OrderDate': '1997-04-04T00:00:00.000Z',
    'ShippedDate': '1997-04-07T00:00:00.000Z',
    'Freight': 46.77,
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    'ShipAddress': 'Av. Inês de Castro, 414',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'Freight': 36.21,
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      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'HILAA',
      'OrderDate': '1997-04-07T00:00:00.000Z',
      'ShippedDate': '1997-04-11T00:00:00.000Z',
      'Freight': 29.75,
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      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10499,
      'CustomerID': 'LILAS',
      'OrderDate': '1997-04-08T00:00:00.000Z',
      'ShippedDate': '1997-04-16T00:00:00.000Z',
      'Freight': 102.02,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
    {
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      'CustomerID': 'LAMAI',
      'OrderDate': '1997-04-09T00:00:00.000Z',
      'ShippedDate': '1997-04-17T00:00:00.000Z',
      'Freight': 42.68,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'BLAUS',
      'OrderDate': '1997-04-09T00:00:00.000Z',
      'ShippedDate': '1997-04-16T00:00:00.000Z',
      'Freight': 8.85,
      'ShipName': 'Blauer See Delikatessen',
      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'PERIC',
      'OrderDate': '1997-04-10T00:00:00.000Z',

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    'ShipAddress': 'Calle Dr. Jorge Cash 321',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
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    'CustomerID': 'HUNGO',
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    'ShippedDate': '1997-04-16T00:00:00.000Z',
    'Freight': 16.74,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
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    'CustomerID': 'WHITC',
    'OrderDate': '1997-04-11T00:00:00.000Z',
    'ShippedDate': '1997-04-18T00:00:00.000Z',
    'Freight': 59.13,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10505,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-04-14T00:00:00.000Z',
    'ShippedDate': '1997-04-21T00:00:00.000Z',
    'Freight': 7.13,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10506,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-04-15T00:00:00.000Z',
    'ShippedDate': '1997-05-02T00:00:00.000Z',
    'Freight': 21.19,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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    'OrderDate': '1997-04-15T00:00:00.000Z',
    'ShippedDate': '1997-04-22T00:00:00.000Z',
    'Freight': 47.45,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10508,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-04-16T00:00:00.000Z',
    'ShippedDate': '1997-05-13T00:00:00.000Z',
    'Freight': 4.99,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10509,
    'CustomerID': 'BLAUS',
    'OrderDate': '1997-04-17T00:00:00.000Z',
    'ShippedDate': '1997-04-29T00:00:00.000Z',
    'Freight': 0.15,
    'ShipName': 'Blauer See Delikatessen',
    'ShipAddress': 'Forsterstr. 57',
    'ShipCity': 'Mannheim',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'SAVEA',
    'OrderDate': '1997-04-18T00:00:00.000Z',
    'ShippedDate': '1997-04-28T00:00:00.000Z',
    'Freight': 367.63,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10511,
    'CustomerID': 'BONAP',
    'OrderDate': '1997-04-18T00:00:00.000Z',
    'ShippedDate': '1997-04-21T00:00:00.000Z',
    'Freight': 350.64,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
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    'CustomerID': 'FAMIA',
    'OrderDate': '1997-04-21T00:00:00.000Z',
    'ShippedDate': '1997-04-24T00:00:00.000Z',
    'Freight': 3.53,
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    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10513,
    'CustomerID': 'WANDK',
    'OrderDate': '1997-04-22T00:00:00.000Z',
    'ShippedDate': '1997-04-28T00:00:00.000Z',
    'Freight': 105.65,
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    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10514,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-04-22T00:00:00.000Z',
    'ShippedDate': '1997-05-16T00:00:00.000Z',
    'Freight': 789.95,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10515,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-04-23T00:00:00.000Z',
    'ShippedDate': '1997-05-23T00:00:00.000Z',
    'Freight': 204.47,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10516,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-04-24T00:00:00.000Z',
    'ShippedDate': '1997-05-01T00:00:00.000Z',
    'Freight': 62.78,
    'ShipName': 'Hungry Owl All-Night Grocers',

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      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
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      'CustomerID': 'NORTS',
      'OrderDate': '1997-04-24T00:00:00.000Z',
      'ShippedDate': '1997-04-29T00:00:00.000Z',
      'Freight': 32.07,
      'ShipName': 'North/South',
      'ShipAddress': 'South House 300 Queensbridge',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10518,
      'CustomerID': 'TORTU',
      'OrderDate': '1997-04-25T00:00:00.000Z',
      'ShippedDate': '1997-05-05T00:00:00.000Z',
      'Freight': 218.15,
      'ShipName': 'Tortuga Restaurante',
      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10519,
      'CustomerID': 'CHOPS',
      'OrderDate': '1997-04-28T00:00:00.000Z',
      'ShippedDate': '1997-05-01T00:00:00.000Z',
      'Freight': 91.76,
      'ShipName': 'Chop-suey Chinese',
      'ShipAddress': 'Hauptstr. 31',
      'ShipCity': 'Bern',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10520,
      'CustomerID': 'SANTG',
      'OrderDate': '1997-04-29T00:00:00.000Z',
      'ShippedDate': '1997-05-01T00:00:00.000Z',
      'Freight': 13.37,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkes gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    },
    {
      'OrderID': 10521,
      'CustomerID': 'CACTU',
      'OrderDate': '1997-04-29T00:00:00.000Z',

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      'ShippedDate': '1997-05-02T00:00:00.000Z',
      'Freight': 17.22,
      'ShipName': 'Cactus Comidas para llevar',
      'ShipAddress': 'Cerrito 333',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
    {
      'OrderID': 10522,
      'CustomerID': 'LEHMS',
      'OrderDate': '1997-04-30T00:00:00.000Z',
      'ShippedDate': '1997-05-06T00:00:00.000Z',
      'Freight': 45.33,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10523,
      'CustomerID': 'SEVES',
      'OrderDate': '1997-05-01T00:00:00.000Z',
      'ShippedDate': '1997-05-30T00:00:00.000Z',
      'Freight': 77.63,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10524,
      'CustomerID': 'BERGS',
      'OrderDate': '1997-05-01T00:00:00.000Z',
      'ShippedDate': '1997-05-07T00:00:00.000Z',
      'Freight': 244.79,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'BONAP',
      'OrderDate': '1997-05-02T00:00:00.000Z',
      'ShippedDate': '1997-05-23T00:00:00.000Z',
      'Freight': 11.06,
      'ShipName': 'Bon app',
      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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    'OrderDate': '1997-05-05T00:00:00.000Z',
    'ShippedDate': '1997-05-15T00:00:00.000Z',
    'Freight': 58.59,
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    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10527,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-05-05T00:00:00.000Z',
    'ShippedDate': '1997-05-07T00:00:00.000Z',
    'Freight': 41.9,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10528,
    'CustomerID': 'GREAL',
    'OrderDate': '1997-05-06T00:00:00.000Z',
    'ShippedDate': '1997-05-09T00:00:00.000Z',
    'Freight': 3.35,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10529,
    'CustomerID': 'MAISD',
    'OrderDate': '1997-05-07T00:00:00.000Z',
    'ShippedDate': '1997-05-09T00:00:00.000Z',
    'Freight': 66.69,
    'ShipName': 'Maison Dewey',
    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
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    'CustomerID': 'PICCO',
    'OrderDate': '1997-05-08T00:00:00.000Z',
    'ShippedDate': '1997-05-12T00:00:00.000Z',
    'Freight': 339.22,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,

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    'ShipCountry': 'Austria'
  },
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    'OrderDate': '1997-05-08T00:00:00.000Z',
    'ShippedDate': '1997-05-19T00:00:00.000Z',
    'Freight': 8.12,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10532,
    'CustomerID': 'EASTC',
    'OrderDate': '1997-05-09T00:00:00.000Z',
    'ShippedDate': '1997-05-12T00:00:00.000Z',
    'Freight': 74.46,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10533,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-05-12T00:00:00.000Z',
    'ShippedDate': '1997-05-22T00:00:00.000Z',
    'Freight': 188.04,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'LEHMS',
    'OrderDate': '1997-05-12T00:00:00.000Z',
    'ShippedDate': '1997-05-14T00:00:00.000Z',
    'Freight': 27.94,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10535,
    'CustomerID': 'ANTON',
    'OrderDate': '1997-05-13T00:00:00.000Z',
    'ShippedDate': '1997-05-21T00:00:00.000Z',
    'Freight': 15.64,
    'ShipName': 'Antonio Moreno Taquería',

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      'ShipAddress': 'Mataderos 2312',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
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      'CustomerID': 'LEHMS',
      'OrderDate': '1997-05-14T00:00:00.000Z',
      'ShippedDate': '1997-06-06T00:00:00.000Z',
      'Freight': 58.88,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10537,
      'CustomerID': 'RICSU',
      'OrderDate': '1997-05-14T00:00:00.000Z',
      'ShippedDate': '1997-05-19T00:00:00.000Z',
      'Freight': 78.85,
      'ShipName': 'Richter Supermarkt',
      'ShipAddress': 'Starenweg 5',
      'ShipCity': 'Genève',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10538,
      'CustomerID': 'BSBEV',
      'OrderDate': '1997-05-15T00:00:00.000Z',
      'ShippedDate': '1997-05-16T00:00:00.000Z',
      'Freight': 4.87,
      'ShipName': 'B\ ' Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10539,
      'CustomerID': 'BSBEV',
      'OrderDate': '1997-05-16T00:00:00.000Z',
      'ShippedDate': '1997-05-23T00:00:00.000Z',
      'Freight': 12.36,
      'ShipName': 'B\ ' Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10540,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-05-19T00:00:00.000Z',

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    'ShippedDate': '1997-06-13T00:00:00.000Z',
    'Freight': 1007.64,
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    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10541,
    'CustomerID': 'HANAR',
    'OrderDate': '1997-05-19T00:00:00.000Z',
    'ShippedDate': '1997-05-29T00:00:00.000Z',
    'Freight': 68.65,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10542,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-05-20T00:00:00.000Z',
    'ShippedDate': '1997-05-26T00:00:00.000Z',
    'Freight': 10.95,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10543,
    'CustomerID': 'LILAS',
    'OrderDate': '1997-05-21T00:00:00.000Z',
    'ShippedDate': '1997-05-23T00:00:00.000Z',
    'Freight': 48.17,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10544,
    'CustomerID': 'LONEP',
    'OrderDate': '1997-05-21T00:00:00.000Z',
    'ShippedDate': '1997-05-30T00:00:00.000Z',
    'Freight': 24.91,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {

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    'OrderID': 10545,
    'CustomerID': 'LAZYK',
    'OrderDate': '1997-05-22T00:00:00.000Z',
    'ShippedDate': '1997-06-26T00:00:00.000Z',
    'Freight': 11.92,
    'ShipName': 'Lazy K Kountry Store',
    'ShipAddress': '12 Orchestra Terrace',
    'ShipCity': 'Walla Walla',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10546,
    'CustomerID': 'VICTE',
    'OrderDate': '1997-05-23T00:00:00.000Z',
    'ShippedDate': '1997-05-27T00:00:00.000Z',
    'Freight': 194.72,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10547,
    'CustomerID': 'SEVES',
    'OrderDate': '1997-05-23T00:00:00.000Z',
    'ShippedDate': '1997-06-02T00:00:00.000Z',
    'Freight': 178.43,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10548,
    'CustomerID': 'TOMSP',
    'OrderDate': '1997-05-26T00:00:00.000Z',
    'ShippedDate': '1997-06-02T00:00:00.000Z',
    'Freight': 1.43,
    'ShipName': 'Toms Spezialitäten',
    'ShipAddress': 'Luisenstr. 48',
    'ShipCity': 'Münster',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10549,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-05-27T00:00:00.000Z',
    'ShippedDate': '1997-05-30T00:00:00.000Z',
    'Freight': 171.24,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,

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    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10550,
    'CustomerID': 'GODOS',
    'OrderDate': '1997-05-28T00:00:00.000Z',
    'ShippedDate': '1997-06-06T00:00:00.000Z',
    'Freight': 4.32,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
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    'CustomerID': 'FURIB',
    'OrderDate': '1997-05-28T00:00:00.000Z',
    'ShippedDate': '1997-06-06T00:00:00.000Z',
    'Freight': 72.95,
    'ShipName': 'Furia Bacalhau e Frutos do Mar',
    'ShipAddress': 'Jardim das rosas n. 32',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10552,
    'CustomerID': 'HILAA',
    'OrderDate': '1997-05-29T00:00:00.000Z',
    'ShippedDate': '1997-06-05T00:00:00.000Z',
    'Freight': 83.22,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10553,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-05-30T00:00:00.000Z',
    'ShippedDate': '1997-06-03T00:00:00.000Z',
    'Freight': 149.49,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10554,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-05-30T00:00:00.000Z',
    'ShippedDate': '1997-06-05T00:00:00.000Z',
    'Freight': 120.97,
    'ShipName': 'Ottilies Käseladen',

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      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
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    {
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      'CustomerID': 'SAVEA',
      'OrderDate': '1997-06-02T00:00:00.000Z',
      'ShippedDate': '1997-06-04T00:00:00.000Z',
      'Freight': 252.49,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10556,
      'CustomerID': 'SIMOB',
      'OrderDate': '1997-06-03T00:00:00.000Z',
      'ShippedDate': '1997-06-13T00:00:00.000Z',
      'Freight': 9.8,
      'ShipName': 'Simons bistro',
      'ShipAddress': 'Vinbæltet 34',
      'ShipCity': 'Kobenhavn',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10557,
      'CustomerID': 'LEHMS',
      'OrderDate': '1997-06-03T00:00:00.000Z',
      'ShippedDate': '1997-06-06T00:00:00.000Z',
      'Freight': 96.72,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10558,
      'CustomerID': 'AROUT',
      'OrderDate': '1997-06-04T00:00:00.000Z',
      'ShippedDate': '1997-06-10T00:00:00.000Z',
      'Freight': 72.97,
      'ShipName': 'Around the Horn',
      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10559,
      'CustomerID': 'BLONP',
      'OrderDate': '1997-06-05T00:00:00.000Z',

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      'ShippedDate': '1997-06-13T00:00:00.000Z',
      'Freight': 8.05,
      'ShipName': 'Blondel père et fils',
      'ShipAddress': '24, place Kléber',
      'ShipCity': 'Strasbourg',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10560,
      'CustomerID': 'FRANK',
      'OrderDate': '1997-06-06T00:00:00.000Z',
      'ShippedDate': '1997-06-09T00:00:00.000Z',
      'Freight': 36.65,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10561,
      'CustomerID': 'FOLKO',
      'OrderDate': '1997-06-06T00:00:00.000Z',
      'ShippedDate': '1997-06-09T00:00:00.000Z',
      'Freight': 242.21,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10562,
      'CustomerID': 'REGGC',
      'OrderDate': '1997-06-09T00:00:00.000Z',
      'ShippedDate': '1997-06-12T00:00:00.000Z',
      'Freight': 22.95,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10563,
      'CustomerID': 'RICAR',
      'OrderDate': '1997-06-10T00:00:00.000Z',
      'ShippedDate': '1997-06-24T00:00:00.000Z',
      'Freight': 60.43,
      'ShipName': 'Ricardo Adocicados',
      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    }
  ],
  {

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    'OrderID': 10564,
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    'OrderDate': '1997-06-10T00:00:00.000Z',
    'ShippedDate': '1997-06-16T00:00:00.000Z',
    'Freight': 13.75,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10565,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-06-11T00:00:00.000Z',
    'ShippedDate': '1997-06-18T00:00:00.000Z',
    'Freight': 7.15,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10566,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-06-12T00:00:00.000Z',
    'ShippedDate': '1997-06-18T00:00:00.000Z',
    'Freight': 88.4,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'HUNGO',
    'OrderDate': '1997-06-12T00:00:00.000Z',
    'ShippedDate': '1997-06-17T00:00:00.000Z',
    'Freight': 33.97,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10568,
    'CustomerID': 'GALED',
    'OrderDate': '1997-06-13T00:00:00.000Z',
    'ShippedDate': '1997-07-09T00:00:00.000Z',
    'Freight': 6.54,
    'ShipName': 'Galería del gastronómo',
    'ShipAddress': 'Rambla de Catalunya, 23',
    'ShipCity': 'Barcelona',
    'ShipRegion': null,

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    'ShipCountry': 'Spain'
  },
  {
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    'CustomerID': 'RATTC',
    'OrderDate': '1997-06-16T00:00:00.000Z',
    'ShippedDate': '1997-07-11T00:00:00.000Z',
    'Freight': 58.98,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10570,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-06-17T00:00:00.000Z',
    'ShippedDate': '1997-06-19T00:00:00.000Z',
    'Freight': 188.99,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10571,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-06-17T00:00:00.000Z',
    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 26.06,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10572,
    'CustomerID': 'BERGS',
    'OrderDate': '1997-06-18T00:00:00.000Z',
    'ShippedDate': '1997-06-25T00:00:00.000Z',
    'Freight': 116.43,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10573,
    'CustomerID': 'ANTON',
    'OrderDate': '1997-06-19T00:00:00.000Z',
    'ShippedDate': '1997-06-20T00:00:00.000Z',
    'Freight': 84.84,
    'ShipName': 'Antonio Moreno Taquería',

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      'ShipAddress': 'Mataderos 2312',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10574,
      'CustomerID': 'TRAIH',
      'OrderDate': '1997-06-19T00:00:00.000Z',
      'ShippedDate': '1997-06-30T00:00:00.000Z',
      'Freight': 37.6,
      'ShipName': 'Trail\' Head Gourmet Provisioners',
      'ShipAddress': '722 DaVinci Blvd.',
      'ShipCity': 'Kirkland',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10575,
      'CustomerID': 'MORGK',
      'OrderDate': '1997-06-20T00:00:00.000Z',
      'ShippedDate': '1997-06-30T00:00:00.000Z',
      'Freight': 127.34,
      'ShipName': 'Morgenstern Gesundkost',
      'ShipAddress': 'Heerstr. 22',
      'ShipCity': 'Leipzig',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10576,
      'CustomerID': 'TORTU',
      'OrderDate': '1997-06-23T00:00:00.000Z',
      'ShippedDate': '1997-06-30T00:00:00.000Z',
      'Freight': 18.56,
      'ShipName': 'Tortuga Restaurante',
      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10577,
      'CustomerID': 'TRAIH',
      'OrderDate': '1997-06-23T00:00:00.000Z',
      'ShippedDate': '1997-06-30T00:00:00.000Z',
      'Freight': 25.41,
      'ShipName': 'Trail\' Head Gourmet Provisioners',
      'ShipAddress': '722 DaVinci Blvd.',
      'ShipCity': 'Kirkland',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10578,
      'CustomerID': 'BSBEV',
      'OrderDate': '1997-06-24T00:00:00.000Z',

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    'ShippedDate': '1997-07-25T00:00:00.000Z',
    'Freight': 29.6,
    'ShipName': 'B\ ' Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10579,
    'CustomerID': 'LETSS',
    'OrderDate': '1997-06-25T00:00:00.000Z',
    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 13.73,
    'ShipName': 'Let\ ' Stop N Shop',
    'ShipAddress': '87 Polk St. Suite 5',
    'ShipCity': 'San Francisco',
    'ShipRegion': 'CA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10580,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-06-26T00:00:00.000Z',
    'ShippedDate': '1997-07-01T00:00:00.000Z',
    'Freight': 75.89,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10581,
    'CustomerID': 'FAMIA',
    'OrderDate': '1997-06-26T00:00:00.000Z',
    'ShippedDate': '1997-07-02T00:00:00.000Z',
    'Freight': 3.01,
    'ShipName': 'Familia Arquibaldo',
    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10582,
    'CustomerID': 'BLAUS',
    'OrderDate': '1997-06-27T00:00:00.000Z',
    'ShippedDate': '1997-07-14T00:00:00.000Z',
    'Freight': 27.71,
    'ShipName': 'Blauer See Delikatessen',
    'ShipAddress': 'Forsterstr. 57',
    'ShipCity': 'Mannheim',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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    'OrderID': 10583,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-06-30T00:00:00.000Z',
    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 7.28,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10584,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-06-30T00:00:00.000Z',
    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 59.14,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10585,
    'CustomerID': 'WELLI',
    'OrderDate': '1997-07-01T00:00:00.000Z',
    'ShippedDate': '1997-07-10T00:00:00.000Z',
    'Freight': 13.41,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10586,
    'CustomerID': 'REGGC',
    'OrderDate': '1997-07-02T00:00:00.000Z',
    'ShippedDate': '1997-07-09T00:00:00.000Z',
    'Freight': 0.48,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10587,
    'CustomerID': 'QUEDE',
    'OrderDate': '1997-07-02T00:00:00.000Z',
    'ShippedDate': '1997-07-09T00:00:00.000Z',
    'Freight': 62.52,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',

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    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10588,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-07-03T00:00:00.000Z',
    'ShippedDate': '1997-07-10T00:00:00.000Z',
    'Freight': 194.67,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10589,
    'CustomerID': 'GREAL',
    'OrderDate': '1997-07-04T00:00:00.000Z',
    'ShippedDate': '1997-07-14T00:00:00.000Z',
    'Freight': 4.42,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10590,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-07-07T00:00:00.000Z',
    'ShippedDate': '1997-07-14T00:00:00.000Z',
    'Freight': 44.77,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10591,
    'CustomerID': 'VAFFE',
    'OrderDate': '1997-07-07T00:00:00.000Z',
    'ShippedDate': '1997-07-16T00:00:00.000Z',
    'Freight': 55.92,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10592,
    'CustomerID': 'LEHMS',
    'OrderDate': '1997-07-08T00:00:00.000Z',
    'ShippedDate': '1997-07-16T00:00:00.000Z',
    'Freight': 32.1,
    'ShipName': 'Lehmanns Marktstand',

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      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10593,
      'CustomerID': 'LEHMS',
      'OrderDate': '1997-07-09T00:00:00.000Z',
      'ShippedDate': '1997-08-13T00:00:00.000Z',
      'Freight': 174.2,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10594,
      'CustomerID': 'OLDWO',
      'OrderDate': '1997-07-09T00:00:00.000Z',
      'ShippedDate': '1997-07-16T00:00:00.000Z',
      'Freight': 5.24,
      'ShipName': 'Old World Delicatessen',
      'ShipAddress': '2743 Bering St.',
      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10595,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-07-10T00:00:00.000Z',
      'ShippedDate': '1997-07-14T00:00:00.000Z',
      'Freight': 96.78,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10596,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-07-11T00:00:00.000Z',
      'ShippedDate': '1997-08-12T00:00:00.000Z',
      'Freight': 16.34,
      'ShipName': 'White Clover Markets',
      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10597,
      'CustomerID': 'PICCO',
      'OrderDate': '1997-07-11T00:00:00.000Z',

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    'ShippedDate': '1997-07-18T00:00:00.000Z',
    'Freight': 35.12,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10598,
    'CustomerID': 'RATTC',
    'OrderDate': '1997-07-14T00:00:00.000Z',
    'ShippedDate': '1997-07-18T00:00:00.000Z',
    'Freight': 44.42,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10599,
    'CustomerID': 'BSBEV',
    'OrderDate': '1997-07-15T00:00:00.000Z',
    'ShippedDate': '1997-07-21T00:00:00.000Z',
    'Freight': 29.98,
    'ShipName': 'B Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10600,
    'CustomerID': 'HUNGC',
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    'Freight': 45.13,
    'ShipName': 'Hungry Coyote Import Store',
    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10601,
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    'Freight': 58.3,
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
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    'OrderDate': '1997-07-17T00:00:00.000Z',
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    'Freight': 2.92,
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    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
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    'CustomerID': 'SAVEA',
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    'Freight': 48.77,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'FURIB',
    'OrderDate': '1997-07-18T00:00:00.000Z',
    'ShippedDate': '1997-07-29T00:00:00.000Z',
    'Freight': 7.46,
    'ShipName': 'Furia Bacalhau e Frutos do Mar',
    'ShipAddress': 'Jardim das rosas n. 32',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10605,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-07-21T00:00:00.000Z',
    'ShippedDate': '1997-07-29T00:00:00.000Z',
    'Freight': 379.13,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'TRADH',
    'OrderDate': '1997-07-22T00:00:00.000Z',
    'ShippedDate': '1997-07-31T00:00:00.000Z',
    'Freight': 79.4,
    'ShipName': 'Tradição Hipermercados',
    'ShipAddress': 'Av. Inês de Castro, 414',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
  }

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  },
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    'CustomerID': 'SAVEA',
    'OrderDate': '1997-07-22T00:00:00.000Z',
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    'Freight': 200.24,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'TOMSP',
    'OrderDate': '1997-07-23T00:00:00.000Z',
    'ShippedDate': '1997-08-01T00:00:00.000Z',
    'Freight': 27.79,
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    'ShipAddress': 'Luisenstr. 48',
    'ShipCity': 'Münster',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10609,
    'CustomerID': 'DUMON',
    'OrderDate': '1997-07-24T00:00:00.000Z',
    'ShippedDate': '1997-07-30T00:00:00.000Z',
    'Freight': 1.85,
    'ShipName': 'Du monde entier',
    'ShipAddress': '67, rue des Cinquante Otages',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'LAMAI',
    'OrderDate': '1997-07-25T00:00:00.000Z',
    'ShippedDate': '1997-08-06T00:00:00.000Z',
    'Freight': 26.78,
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    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10611,
    'CustomerID': 'WOLZA',
    'OrderDate': '1997-07-25T00:00:00.000Z',
    'ShippedDate': '1997-08-01T00:00:00.000Z',
    'Freight': 80.65,
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      'ShipCity': 'Warszawa',
      'ShipRegion': null,
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    },
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      'OrderDate': '1997-07-28T00:00:00.000Z',
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      'Freight': 544.08,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'HILAA',
      'OrderDate': '1997-07-29T00:00:00.000Z',
      'ShippedDate': '1997-08-01T00:00:00.000Z',
      'Freight': 8.11,
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      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
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      'CustomerID': 'BLAUS',
      'OrderDate': '1997-07-29T00:00:00.000Z',
      'ShippedDate': '1997-08-01T00:00:00.000Z',
      'Freight': 1.93,
      'ShipName': 'Blauer See Delikatessen',
      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10615,
      'CustomerID': 'WILMK',
      'OrderDate': '1997-07-30T00:00:00.000Z',
      'ShippedDate': '1997-08-06T00:00:00.000Z',
      'Freight': 0.75,
      'ShipName': 'Wilman Kala',
      'ShipAddress': 'Keskuskatu 45',
      'ShipCity': 'Helsinki',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10616,
      'CustomerID': 'GREAL',
      'OrderDate': '1997-07-31T00:00:00.000Z',

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    'ShippedDate': '1997-08-05T00:00:00.000Z',
    'Freight': 116.53,
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    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10617,
    'CustomerID': 'GREAL',
    'OrderDate': '1997-07-31T00:00:00.000Z',
    'ShippedDate': '1997-08-04T00:00:00.000Z',
    'Freight': 18.53,
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    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10618,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-08-01T00:00:00.000Z',
    'ShippedDate': '1997-08-08T00:00:00.000Z',
    'Freight': 154.68,
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    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'MEREP',
    'OrderDate': '1997-08-04T00:00:00.000Z',
    'ShippedDate': '1997-08-07T00:00:00.000Z',
    'Freight': 91.05,
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    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'LAUGB',
    'OrderDate': '1997-08-05T00:00:00.000Z',
    'ShippedDate': '1997-08-14T00:00:00.000Z',
    'Freight': 0.94,
    'ShipName': 'Laughing Bacchus Wine Cellars',
    'ShipAddress': '2319 Elm St.',
    'ShipCity': 'Vancouver',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  }
]

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    'OrderID': 10621,
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    'Freight': 23.73,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10622,
    'CustomerID': 'RICAR',
    'OrderDate': '1997-08-06T00:00:00.000Z',
    'ShippedDate': '1997-08-11T00:00:00.000Z',
    'Freight': 50.97,
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    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'FRANK',
    'OrderDate': '1997-08-07T00:00:00.000Z',
    'ShippedDate': '1997-08-12T00:00:00.000Z',
    'Freight': 97.18,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'THECR',
    'OrderDate': '1997-08-07T00:00:00.000Z',
    'ShippedDate': '1997-08-19T00:00:00.000Z',
    'Freight': 94.8,
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    'ShipAddress': '55 Grizzly Peak Rd.',
    'ShipCity': 'Butte',
    'ShipRegion': 'MT',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10625,
    'CustomerID': 'ANATR',
    'OrderDate': '1997-08-08T00:00:00.000Z',
    'ShippedDate': '1997-08-14T00:00:00.000Z',
    'Freight': 43.9,
    'ShipName': 'Ana Trujillo Emparedados y helados',
    'ShipAddress': 'Avda. de la Constitución 2222',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,

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    'ShipCountry': 'Mexico'
  },
  {
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    'OrderDate': '1997-08-11T00:00:00.000Z',
    'ShippedDate': '1997-08-20T00:00:00.000Z',
    'Freight': 138.69,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'SAVEA',
    'OrderDate': '1997-08-11T00:00:00.000Z',
    'ShippedDate': '1997-08-21T00:00:00.000Z',
    'Freight': 107.46,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10628,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-08-12T00:00:00.000Z',
    'ShippedDate': '1997-08-20T00:00:00.000Z',
    'Freight': 30.36,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10629,
    'CustomerID': 'GODOS',
    'OrderDate': '1997-08-12T00:00:00.000Z',
    'ShippedDate': '1997-08-20T00:00:00.000Z',
    'Freight': 85.46,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10630,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-08-13T00:00:00.000Z',
    'ShippedDate': '1997-08-19T00:00:00.000Z',
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    'ShipName': 'Königlich Essen',

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      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'OrderDate': '1997-08-14T00:00:00.000Z',
      'ShippedDate': '1997-08-15T00:00:00.000Z',
      'Freight': 0.87,
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      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'WANDK',
      'OrderDate': '1997-08-14T00:00:00.000Z',
      'ShippedDate': '1997-08-19T00:00:00.000Z',
      'Freight': 41.38,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10633,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-08-15T00:00:00.000Z',
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      'Freight': 477.9,
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      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
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      'CustomerID': 'FOLIG',
      'OrderDate': '1997-08-15T00:00:00.000Z',
      'ShippedDate': '1997-08-21T00:00:00.000Z',
      'Freight': 487.38,
      'ShipName': 'Folies gourmandes',
      'ShipAddress': '184, chaussée de Tournai',
      'ShipCity': 'Lille',
      'ShipRegion': null,
      'ShipCountry': 'France'
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    {
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      'CustomerID': 'MAGAA',
      'OrderDate': '1997-08-18T00:00:00.000Z',

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      'ShippedDate': '1997-08-21T00:00:00.000Z',
      'Freight': 47.46,
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      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10636,
      'CustomerID': 'WARTH',
      'OrderDate': '1997-08-19T00:00:00.000Z',
      'ShippedDate': '1997-08-26T00:00:00.000Z',
      'Freight': 1.15,
      'ShipName': 'Wartian Herkku',
      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10637,
      'CustomerID': 'QUEEN',
      'OrderDate': '1997-08-19T00:00:00.000Z',
      'ShippedDate': '1997-08-26T00:00:00.000Z',
      'Freight': 201.29,
      'ShipName': 'Queen Cozinha',
      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10638,
      'CustomerID': 'LINOD',
      'OrderDate': '1997-08-20T00:00:00.000Z',
      'ShippedDate': '1997-09-01T00:00:00.000Z',
      'Freight': 158.44,
      'ShipName': 'LINO-Delicateses',
      'ShipAddress': 'Ave. 5 de Mayo Porlamar',
      'ShipCity': 'I. de Margarita',
      'ShipRegion': 'Nueva Esparta',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10639,
      'CustomerID': 'SANTG',
      'OrderDate': '1997-08-20T00:00:00.000Z',
      'ShippedDate': '1997-08-27T00:00:00.000Z',
      'Freight': 38.64,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkess gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    }
  ],
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      'Freight': 23.55,
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      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10641,
      'CustomerID': 'HILAA',
      'OrderDate': '1997-08-22T00:00:00.000Z',
      'ShippedDate': '1997-08-26T00:00:00.000Z',
      'Freight': 179.61,
      'ShipName': 'HILARION-Abastos',
      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10642,
      'CustomerID': 'SIMOB',
      'OrderDate': '1997-08-22T00:00:00.000Z',
      'ShippedDate': '1997-09-05T00:00:00.000Z',
      'Freight': 41.89,
      'ShipName': 'Simons bistro',
      'ShipAddress': 'Vinbæltet 34',
      'ShipCity': 'Kobenhavn',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10643,
      'CustomerID': 'ALFKI',
      'OrderDate': '1997-08-25T00:00:00.000Z',
      'ShippedDate': '1997-09-02T00:00:00.000Z',
      'Freight': 29.46,
      'ShipName': 'Alfreds Futterkiste',
      'ShipAddress': 'Obere Str. 57',
      'ShipCity': 'Berlin',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10644,
      'CustomerID': 'WELLI',
      'OrderDate': '1997-08-25T00:00:00.000Z',
      'ShippedDate': '1997-09-01T00:00:00.000Z',
      'Freight': 0.14,
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      'ShipAddress': 'Rua do Mercado, 12',
      'ShipCity': 'Resende',
      'ShipRegion': 'SP',

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    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'HANAR',
    'OrderDate': '1997-08-26T00:00:00.000Z',
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    'Freight': 12.41,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10646,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-08-27T00:00:00.000Z',
    'ShippedDate': '1997-09-03T00:00:00.000Z',
    'Freight': 142.33,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10647,
    'CustomerID': 'QUEDE',
    'OrderDate': '1997-08-27T00:00:00.000Z',
    'ShippedDate': '1997-09-03T00:00:00.000Z',
    'Freight': 45.54,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10648,
    'CustomerID': 'RICAR',
    'OrderDate': '1997-08-28T00:00:00.000Z',
    'ShippedDate': '1997-09-09T00:00:00.000Z',
    'Freight': 14.25,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10649,
    'CustomerID': 'MAISD',
    'OrderDate': '1997-08-28T00:00:00.000Z',
    'ShippedDate': '1997-08-29T00:00:00.000Z',
    'Freight': 6.2,
    'ShipName': 'Maison Dewey',

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      'ShipAddress': 'Rue Joseph-Bens 532',
      'ShipCity': 'Bruxelles',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
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      'CustomerID': 'FAMIA',
      'OrderDate': '1997-08-29T00:00:00.000Z',
      'ShippedDate': '1997-09-03T00:00:00.000Z',
      'Freight': 176.81,
      'ShipName': 'Familia Arquibaldo',
      'ShipAddress': 'Rua Orós, 92',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10651,
      'CustomerID': 'WANDK',
      'OrderDate': '1997-09-01T00:00:00.000Z',
      'ShippedDate': '1997-09-11T00:00:00.000Z',
      'Freight': 20.6,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10652,
      'CustomerID': 'GOURL',
      'OrderDate': '1997-09-01T00:00:00.000Z',
      'ShippedDate': '1997-09-08T00:00:00.000Z',
      'Freight': 7.14,
      'ShipName': 'Gourmet Lanchonetes',
      'ShipAddress': 'Av. Brasil, 442',
      'ShipCity': 'Campinas',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10653,
      'CustomerID': 'FRANK',
      'OrderDate': '1997-09-02T00:00:00.000Z',
      'ShippedDate': '1997-09-19T00:00:00.000Z',
      'Freight': 93.25,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10654,
      'CustomerID': 'BERGS',
      'OrderDate': '1997-09-02T00:00:00.000Z',

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      'ShippedDate': '1997-09-11T00:00:00.000Z',
      'Freight': 55.26,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10655,
      'CustomerID': 'REGGC',
      'OrderDate': '1997-09-03T00:00:00.000Z',
      'ShippedDate': '1997-09-11T00:00:00.000Z',
      'Freight': 4.41,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10656,
      'CustomerID': 'GREAL',
      'OrderDate': '1997-09-04T00:00:00.000Z',
      'ShippedDate': '1997-09-10T00:00:00.000Z',
      'Freight': 57.15,
      'ShipName': 'Great Lakes Food Market',
      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10657,
      'CustomerID': 'SAVEA',
      'OrderDate': '1997-09-04T00:00:00.000Z',
      'ShippedDate': '1997-09-15T00:00:00.000Z',
      'Freight': 352.69,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10658,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-09-05T00:00:00.000Z',
      'ShippedDate': '1997-09-08T00:00:00.000Z',
      'Freight': 364.15,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    }
  ],
  {

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    'OrderDate': '1997-09-05T00:00:00.000Z',
    'ShippedDate': '1997-09-10T00:00:00.000Z',
    'Freight': 105.81,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10660,
    'CustomerID': 'HUNGC',
    'OrderDate': '1997-09-08T00:00:00.000Z',
    'ShippedDate': '1997-10-15T00:00:00.000Z',
    'Freight': 111.29,
    'ShipName': 'Hungry Coyote Import Store',
    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10661,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-09-09T00:00:00.000Z',
    'ShippedDate': '1997-09-15T00:00:00.000Z',
    'Freight': 17.55,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10662,
    'CustomerID': 'LONEP',
    'OrderDate': '1997-09-09T00:00:00.000Z',
    'ShippedDate': '1997-09-18T00:00:00.000Z',
    'Freight': 1.28,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10663,
    'CustomerID': 'BONAP',
    'OrderDate': '1997-09-10T00:00:00.000Z',
    'ShippedDate': '1997-10-03T00:00:00.000Z',
    'Freight': 113.15,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'FURIB',
    'OrderDate': '1997-09-10T00:00:00.000Z',
    'ShippedDate': '1997-09-19T00:00:00.000Z',
    'Freight': 1.27,
    'ShipName': 'Furia Bacalhau e Frutos do Mar',
    'ShipAddress': 'Jardim das rosas n. 32',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10665,
    'CustomerID': 'LONEP',
    'OrderDate': '1997-09-11T00:00:00.000Z',
    'ShippedDate': '1997-09-17T00:00:00.000Z',
    'Freight': 26.31,
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    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10666,
    'CustomerID': 'RICSU',
    'OrderDate': '1997-09-12T00:00:00.000Z',
    'ShippedDate': '1997-09-22T00:00:00.000Z',
    'Freight': 232.42,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10667,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-09-12T00:00:00.000Z',
    'ShippedDate': '1997-09-19T00:00:00.000Z',
    'Freight': 78.09,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10668,
    'CustomerID': 'WANDK',
    'OrderDate': '1997-09-15T00:00:00.000Z',
    'ShippedDate': '1997-09-23T00:00:00.000Z',
    'Freight': 47.22,
    'ShipName': 'Die Wandernde Kuh',

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      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'SIMOB',
      'OrderDate': '1997-09-15T00:00:00.000Z',
      'ShippedDate': '1997-09-22T00:00:00.000Z',
      'Freight': 24.39,
      'ShipName': 'Simons bistro',
      'ShipAddress': 'Vinbæltet 34',
      'ShipCity': 'Kobenhavn',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10670,
      'CustomerID': 'FRANK',
      'OrderDate': '1997-09-16T00:00:00.000Z',
      'ShippedDate': '1997-09-18T00:00:00.000Z',
      'Freight': 203.48,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10671,
      'CustomerID': 'FRANR',
      'OrderDate': '1997-09-17T00:00:00.000Z',
      'ShippedDate': '1997-09-24T00:00:00.000Z',
      'Freight': 30.34,
      'ShipName': 'France restauration',
      'ShipAddress': '54, rue Royale',
      'ShipCity': 'Nantes',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10672,
      'CustomerID': 'BERGS',
      'OrderDate': '1997-09-17T00:00:00.000Z',
      'ShippedDate': '1997-09-26T00:00:00.000Z',
      'Freight': 95.75,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10673,
      'CustomerID': 'WILMK',
      'OrderDate': '1997-09-18T00:00:00.000Z',

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    'ShippedDate': '1997-09-19T00:00:00.000Z',
    'Freight': 22.76,
    'ShipName': 'Wilman Kala',
    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10674,
    'CustomerID': 'ISLAT',
    'OrderDate': '1997-09-18T00:00:00.000Z',
    'ShippedDate': '1997-09-30T00:00:00.000Z',
    'Freight': 0.9,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10675,
    'CustomerID': 'FRANK',
    'OrderDate': '1997-09-19T00:00:00.000Z',
    'ShippedDate': '1997-09-23T00:00:00.000Z',
    'Freight': 31.85,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10676,
    'CustomerID': 'TORTU',
    'OrderDate': '1997-09-22T00:00:00.000Z',
    'ShippedDate': '1997-09-29T00:00:00.000Z',
    'Freight': 2.01,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10677,
    'CustomerID': 'ANTON',
    'OrderDate': '1997-09-22T00:00:00.000Z',
    'ShippedDate': '1997-09-26T00:00:00.000Z',
    'Freight': 4.03,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {

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    'OrderID': 10678,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-09-23T00:00:00.000Z',
    'ShippedDate': '1997-10-16T00:00:00.000Z',
    'Freight': 388.98,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10679,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-09-23T00:00:00.000Z',
    'ShippedDate': '1997-09-30T00:00:00.000Z',
    'Freight': 27.94,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10680,
    'CustomerID': 'OLDWO',
    'OrderDate': '1997-09-24T00:00:00.000Z',
    'ShippedDate': '1997-09-26T00:00:00.000Z',
    'Freight': 26.61,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10681,
    'CustomerID': 'GREAL',
    'OrderDate': '1997-09-25T00:00:00.000Z',
    'ShippedDate': '1997-09-30T00:00:00.000Z',
    'Freight': 76.13,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10682,
    'CustomerID': 'ANTON',
    'OrderDate': '1997-09-25T00:00:00.000Z',
    'ShippedDate': '1997-10-01T00:00:00.000Z',
    'Freight': 36.13,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,

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    'ShipCountry': 'Mexico'
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  {
    'OrderID': 10683,
    'CustomerID': 'DUMON',
    'OrderDate': '1997-09-26T00:00:00.000Z',
    'ShippedDate': '1997-10-01T00:00:00.000Z',
    'Freight': 4.4,
    'ShipName': 'Du monde entier',
    'ShipAddress': '67, rue des Cinquante Otages',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10684,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-09-26T00:00:00.000Z',
    'ShippedDate': '1997-09-30T00:00:00.000Z',
    'Freight': 145.63,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10685,
    'CustomerID': 'GOURL',
    'OrderDate': '1997-09-29T00:00:00.000Z',
    'ShippedDate': '1997-10-03T00:00:00.000Z',
    'Freight': 33.75,
    'ShipName': 'Gourmet Lanchonetes',
    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10686,
    'CustomerID': 'PICCO',
    'OrderDate': '1997-09-30T00:00:00.000Z',
    'ShippedDate': '1997-10-08T00:00:00.000Z',
    'Freight': 96.5,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10687,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-09-30T00:00:00.000Z',
    'ShippedDate': '1997-10-30T00:00:00.000Z',
    'Freight': 296.43,
    'ShipName': 'Hungry Owl All-Night Grocers',

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      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
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      'CustomerID': 'VAFFE',
      'OrderDate': '1997-10-01T00:00:00.000Z',
      'ShippedDate': '1997-10-07T00:00:00.000Z',
      'Freight': 299.09,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10689,
      'CustomerID': 'BERGS',
      'OrderDate': '1997-10-01T00:00:00.000Z',
      'ShippedDate': '1997-10-07T00:00:00.000Z',
      'Freight': 13.42,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10690,
      'CustomerID': 'HANAR',
      'OrderDate': '1997-10-02T00:00:00.000Z',
      'ShippedDate': '1997-10-03T00:00:00.000Z',
      'Freight': 15.8,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10691,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-10-03T00:00:00.000Z',
      'ShippedDate': '1997-10-22T00:00:00.000Z',
      'Freight': 810.05,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'OrderID': 10692,
      'CustomerID': 'ALFKI',
      'OrderDate': '1997-10-03T00:00:00.000Z',

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      'ShippedDate': '1997-10-13T00:00:00.000Z',
      'Freight': 61.02,
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      'ShipAddress': 'Obere Str. 57',
      'ShipCity': 'Berlin',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10693,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-10-06T00:00:00.000Z',
      'ShippedDate': '1997-10-10T00:00:00.000Z',
      'Freight': 139.34,
      'ShipName': 'White Clover Markets',
      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10694,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-10-06T00:00:00.000Z',
      'ShippedDate': '1997-10-09T00:00:00.000Z',
      'Freight': 398.36,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10695,
      'CustomerID': 'WILMK',
      'OrderDate': '1997-10-07T00:00:00.000Z',
      'ShippedDate': '1997-10-14T00:00:00.000Z',
      'Freight': 16.72,
      'ShipName': 'Wilman Kala',
      'ShipAddress': 'Keskuskatu 45',
      'ShipCity': 'Helsinki',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10696,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-10-08T00:00:00.000Z',
      'ShippedDate': '1997-10-14T00:00:00.000Z',
      'Freight': 102.55,
      'ShipName': 'White Clover Markets',
      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    }
  ],
  {

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    'OrderID': 10697,
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    'OrderDate': '1997-10-08T00:00:00.000Z',
    'ShippedDate': '1997-10-14T00:00:00.000Z',
    'Freight': 45.52,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10698,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-10-09T00:00:00.000Z',
    'ShippedDate': '1997-10-17T00:00:00.000Z',
    'Freight': 272.47,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10699,
    'CustomerID': 'MORGK',
    'OrderDate': '1997-10-09T00:00:00.000Z',
    'ShippedDate': '1997-10-13T00:00:00.000Z',
    'Freight': 0.58,
    'ShipName': 'Morgenstern Gesundkost',
    'ShipAddress': 'Heerstr. 22',
    'ShipCity': 'Leipzig',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10700,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-10-10T00:00:00.000Z',
    'ShippedDate': '1997-10-16T00:00:00.000Z',
    'Freight': 65.1,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10701,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-10-13T00:00:00.000Z',
    'ShippedDate': '1997-10-15T00:00:00.000Z',
    'Freight': 220.31,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
  }

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    'ShipCountry': 'Ireland'
  },
  {
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    'CustomerID': 'ALFKI',
    'OrderDate': '1997-10-13T00:00:00.000Z',
    'ShippedDate': '1997-10-21T00:00:00.000Z',
    'Freight': 23.94,
    'ShipName': 'Alfred\ Futterkiste',
    'ShipAddress': 'Obere Str. 57',
    'ShipCity': 'Berlin',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10703,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-10-14T00:00:00.000Z',
    'ShippedDate': '1997-10-20T00:00:00.000Z',
    'Freight': 152.3,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10704,
    'CustomerID': 'QUEEN',
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    'Freight': 4.78,
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    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'Freight': 3.52,
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
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    'Freight': 21.74,
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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
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    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'THEBI',
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    'Freight': 2.96,
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    'ShipAddress': '89 Jefferson Way Suite 2',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'GOURL',
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    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
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    'CustomerID': 'FRANS',
    'OrderDate': '1997-10-20T00:00:00.000Z',
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    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
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    'CustomerID': 'SAVEA',
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    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
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    'ShippedDate': '1997-10-31T00:00:00.000Z',
    'Freight': 89.93,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
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  {
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    'ShippedDate': '1997-10-24T00:00:00.000Z',
    'Freight': 167.05,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'SAVEA',
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    'ShippedDate': '1997-10-27T00:00:00.000Z',
    'Freight': 24.49,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'BONAP',
    'OrderDate': '1997-10-23T00:00:00.000Z',
    'ShippedDate': '1997-10-29T00:00:00.000Z',
    'Freight': 63.2,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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      'ShipRegion': null,
      'ShipCountry': 'Argentina'
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      'CustomerID': 'FRANK',
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      'ShippedDate': '1997-10-29T00:00:00.000Z',
      'Freight': 59.25,
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      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'ShippedDate': '1997-10-29T00:00:00.000Z',
      'Freight': 170.88,
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      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'ShippedDate': '1997-11-05T00:00:00.000Z',
      'Freight': 51.44,
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      'ShipAddress': '87 Polk St. Suite 5',
      'ShipCity': 'San Francisco',
      'ShipRegion': 'CA',
      'ShipCountry': 'USA'
    },
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      'Freight': 9.53,
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      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',

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    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'Freight': 74.58,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'WHITC',
    'OrderDate': '1997-10-30T00:00:00.000Z',
    'ShippedDate': '1997-11-25T00:00:00.000Z',
    'Freight': 21.72,
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    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
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    'OrderDate': '1997-10-30T00:00:00.000Z',
    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 57.75,
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    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'FAMIA',
    'OrderDate': '1997-10-31T00:00:00.000Z',
    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 10.83,
    'ShipName': 'Familia Arquibaldo',

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      'ShipAddress': 'Rua Orós, 92',
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      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
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      'CustomerID': 'EASTC',
      'OrderDate': '1997-11-03T00:00:00.000Z',
      'ShippedDate': '1997-12-05T00:00:00.000Z',
      'Freight': 16.56,
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      'ShipAddress': '35 King George',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
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      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'OrderDate': '1997-11-04T00:00:00.000Z',
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      'Freight': 58.33,
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      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'LINOD',
      'OrderDate': '1997-11-04T00:00:00.000Z',
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      'Freight': 141.06,
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      'ShipAddress': 'Ave. 5 de Mayo Porlamar',
      'ShipCity': 'I. de Margarita',
      'ShipRegion': 'Nueva Esparta',
      'ShipCountry': 'Venezuela'
    },
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      'OrderID': 10730,
      'CustomerID': 'BONAP',
      'OrderDate': '1997-11-05T00:00:00.000Z',

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    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'CustomerID': 'CHOPS',
    'OrderDate': '1997-11-06T00:00:00.000Z',
    'ShippedDate': '1997-11-14T00:00:00.000Z',
    'Freight': 96.65,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
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    'CustomerID': 'BONAP',
    'OrderDate': '1997-11-06T00:00:00.000Z',
    'ShippedDate': '1997-11-07T00:00:00.000Z',
    'Freight': 16.97,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'BERGS',
    'OrderDate': '1997-11-07T00:00:00.000Z',
    'ShippedDate': '1997-11-10T00:00:00.000Z',
    'Freight': 110.11,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'GOURL',
    'OrderDate': '1997-11-07T00:00:00.000Z',
    'ShippedDate': '1997-11-12T00:00:00.000Z',
    'Freight': 1.63,
    'ShipName': 'Gourmet Lanchonetes',
    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'Freight': 45.97,
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    'ShipAddress': '87 Polk St. Suite 5',
    'ShipCity': 'San Francisco',
    'ShipRegion': 'CA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10736,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-11-11T00:00:00.000Z',
    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 44.1,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
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    'CustomerID': 'VINET',
    'OrderDate': '1997-11-11T00:00:00.000Z',
    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 7.79,
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    'ShipAddress': '59 rue de l\'Abbaye',
    'ShipCity': 'Reims',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'SPECB',
    'OrderDate': '1997-11-12T00:00:00.000Z',
    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 2.91,
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    'ShipAddress': '25, rue Lauriston',
    'ShipCity': 'Paris',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'Freight': 11.08,
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    'ShipAddress': '59 rue de l\'Abbaye',
    'ShipCity': 'Reims',
    'ShipRegion': null,

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    'Freight': 81.88,
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    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10741,
    'CustomerID': 'AROUT',
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    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 10.96,
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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
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    'CustomerID': 'BOTTM',
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    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 243.73,
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    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
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    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 23.72,
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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
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    'CustomerID': 'VAFFE',
    'OrderDate': '1997-11-17T00:00:00.000Z',
    'ShippedDate': '1997-11-24T00:00:00.000Z',
    'Freight': 69.19,
    'ShipName': 'Vaffeljernet',

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    'ShipRegion': null,
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    'CustomerID': 'QUICK',
    'OrderDate': '1997-11-18T00:00:00.000Z',
    'ShippedDate': '1997-11-27T00:00:00.000Z',
    'Freight': 3.52,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'CHOPS',
    'OrderDate': '1997-11-19T00:00:00.000Z',
    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 31.43,
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    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
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    'CustomerID': 'PICCO',
    'OrderDate': '1997-11-19T00:00:00.000Z',
    'ShippedDate': '1997-11-26T00:00:00.000Z',
    'Freight': 117.33,
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    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10748,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-11-20T00:00:00.000Z',
    'ShippedDate': '1997-11-28T00:00:00.000Z',
    'Freight': 232.55,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
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  {
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    'CustomerID': 'ISLAT',
    'OrderDate': '1997-11-20T00:00:00.000Z',

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    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10750,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-11-21T00:00:00.000Z',
    'ShippedDate': '1997-11-24T00:00:00.000Z',
    'Freight': 79.3,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
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    'CustomerID': 'RICSU',
    'OrderDate': '1997-11-24T00:00:00.000Z',
    'ShippedDate': '1997-12-03T00:00:00.000Z',
    'Freight': 130.79,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10752,
    'CustomerID': 'NORTS',
    'OrderDate': '1997-11-24T00:00:00.000Z',
    'ShippedDate': '1997-11-28T00:00:00.000Z',
    'Freight': 1.39,
    'ShipName': 'North/South',
    'ShipAddress': 'South House 300 Queensbridge',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10753,
    'CustomerID': 'FRANS',
    'OrderDate': '1997-11-25T00:00:00.000Z',
    'ShippedDate': '1997-11-27T00:00:00.000Z',
    'Freight': 7.7,
    'ShipName': 'Franchi S.p.A.',
    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  }
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    'OrderDate': '1997-11-25T00:00:00.000Z',
    'ShippedDate': '1997-11-27T00:00:00.000Z',
    'Freight': 2.38,
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    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10755,
    'CustomerID': 'BONAP',
    'OrderDate': '1997-11-26T00:00:00.000Z',
    'ShippedDate': '1997-11-28T00:00:00.000Z',
    'Freight': 16.71,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'SPLIR',
    'OrderDate': '1997-11-27T00:00:00.000Z',
    'ShippedDate': '1997-12-02T00:00:00.000Z',
    'Freight': 73.21,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10757,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-11-27T00:00:00.000Z',
    'ShippedDate': '1997-12-15T00:00:00.000Z',
    'Freight': 8.19,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10758,
    'CustomerID': 'RICSU',
    'OrderDate': '1997-11-28T00:00:00.000Z',
    'ShippedDate': '1997-12-04T00:00:00.000Z',
    'Freight': 138.17,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,

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    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10759,
    'CustomerID': 'ANATR',
    'OrderDate': '1997-11-28T00:00:00.000Z',
    'ShippedDate': '1997-12-12T00:00:00.000Z',
    'Freight': 11.99,
    'ShipName': 'Ana Trujillo Emparedados y helados',
    'ShipAddress': 'Avda. de la Constitución 2222',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10760,
    'CustomerID': 'MAISD',
    'OrderDate': '1997-12-01T00:00:00.000Z',
    'ShippedDate': '1997-12-10T00:00:00.000Z',
    'Freight': 155.64,
    'ShipName': 'Maison Dewey',
    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10761,
    'CustomerID': 'RATTC',
    'OrderDate': '1997-12-02T00:00:00.000Z',
    'ShippedDate': '1997-12-08T00:00:00.000Z',
    'Freight': 18.66,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10762,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-12-02T00:00:00.000Z',
    'ShippedDate': '1997-12-09T00:00:00.000Z',
    'Freight': 328.74,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10763,
    'CustomerID': 'FOLIG',
    'OrderDate': '1997-12-03T00:00:00.000Z',
    'ShippedDate': '1997-12-08T00:00:00.000Z',
    'Freight': 37.35,
    'ShipName': 'Folies gourmandes',

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    'ShipAddress': '184, chaussée de Tournai',
    'ShipCity': 'Lille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-03T00:00:00.000Z',
    'ShippedDate': '1997-12-08T00:00:00.000Z',
    'Freight': 145.45,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10765,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-12-04T00:00:00.000Z',
    'ShippedDate': '1997-12-09T00:00:00.000Z',
    'Freight': 42.74,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10766,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-12-05T00:00:00.000Z',
    'ShippedDate': '1997-12-09T00:00:00.000Z',
    'Freight': 157.55,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10767,
    'CustomerID': 'SUPRD',
    'OrderDate': '1997-12-05T00:00:00.000Z',
    'ShippedDate': '1997-12-15T00:00:00.000Z',
    'Freight': 1.59,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10768,
    'CustomerID': 'AROUT',
    'OrderDate': '1997-12-08T00:00:00.000Z',

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    'ShippedDate': '1997-12-15T00:00:00.000Z',
    'Freight': 146.32,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10769,
    'CustomerID': 'VAFFE',
    'OrderDate': '1997-12-08T00:00:00.000Z',
    'ShippedDate': '1997-12-12T00:00:00.000Z',
    'Freight': 65.06,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10770,
    'CustomerID': 'HANAR',
    'OrderDate': '1997-12-09T00:00:00.000Z',
    'ShippedDate': '1997-12-17T00:00:00.000Z',
    'Freight': 5.32,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10771,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-10T00:00:00.000Z',
    'ShippedDate': '1998-01-02T00:00:00.000Z',
    'Freight': 11.19,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10772,
    'CustomerID': 'LEHMS',
    'OrderDate': '1997-12-10T00:00:00.000Z',
    'ShippedDate': '1997-12-19T00:00:00.000Z',
    'Freight': 91.28,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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    'OrderID': 10773,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-11T00:00:00.000Z',
    'ShippedDate': '1997-12-16T00:00:00.000Z',
    'Freight': 96.43,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10774,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-12-11T00:00:00.000Z',
    'ShippedDate': '1997-12-12T00:00:00.000Z',
    'Freight': 48.2,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10775,
    'CustomerID': 'THECR',
    'OrderDate': '1997-12-12T00:00:00.000Z',
    'ShippedDate': '1997-12-26T00:00:00.000Z',
    'Freight': 20.25,
    'ShipName': 'The Cracker Box',
    'ShipAddress': '55 Grizzly Peak Rd.',
    'ShipCity': 'Butte',
    'ShipRegion': 'MT',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10776,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-15T00:00:00.000Z',
    'ShippedDate': '1997-12-18T00:00:00.000Z',
    'Freight': 351.53,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10777,
    'CustomerID': 'GOURL',
    'OrderDate': '1997-12-15T00:00:00.000Z',
    'ShippedDate': '1998-01-21T00:00:00.000Z',
    'Freight': 3.01,
    'ShipName': 'Gourmet Lanchonetes',
    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',

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    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10778,
    'CustomerID': 'BERGS',
    'OrderDate': '1997-12-16T00:00:00.000Z',
    'ShippedDate': '1997-12-24T00:00:00.000Z',
    'Freight': 6.79,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10779,
    'CustomerID': 'MORGK',
    'OrderDate': '1997-12-16T00:00:00.000Z',
    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 58.13,
    'ShipName': 'Morgenstern Gesundkost',
    'ShipAddress': 'Heerstr. 22',
    'ShipCity': 'Leipzig',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10780,
    'CustomerID': 'LILAS',
    'OrderDate': '1997-12-16T00:00:00.000Z',
    'ShippedDate': '1997-12-25T00:00:00.000Z',
    'Freight': 42.13,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10781,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-12-17T00:00:00.000Z',
    'ShippedDate': '1997-12-19T00:00:00.000Z',
    'Freight': 73.16,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10782,
    'CustomerID': 'CACTU',
    'OrderDate': '1997-12-17T00:00:00.000Z',
    'ShippedDate': '1997-12-22T00:00:00.000Z',
    'Freight': 1.1,
    'ShipName': 'Cactus Comidas para llevar',

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    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10783,
    'CustomerID': 'HANAR',
    'OrderDate': '1997-12-18T00:00:00.000Z',
    'ShippedDate': '1997-12-19T00:00:00.000Z',
    'Freight': 124.98,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10784,
    'CustomerID': 'MAGAA',
    'OrderDate': '1997-12-18T00:00:00.000Z',
    'ShippedDate': '1997-12-22T00:00:00.000Z',
    'Freight': 70.09,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10785,
    'CustomerID': 'GROSR',
    'OrderDate': '1997-12-18T00:00:00.000Z',
    'ShippedDate': '1997-12-24T00:00:00.000Z',
    'Freight': 1.51,
    'ShipName': 'GROSELLA-Restaurante',
    'ShipAddress': '5ª Ave. Los Palos Grandes',
    'ShipCity': 'Caracas',
    'ShipRegion': 'DF',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10786,
    'CustomerID': 'QUEEN',
    'OrderDate': '1997-12-19T00:00:00.000Z',
    'ShippedDate': '1997-12-23T00:00:00.000Z',
    'Freight': 110.87,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10787,
    'CustomerID': 'LAMAI',
    'OrderDate': '1997-12-19T00:00:00.000Z',

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    'ShippedDate': '1997-12-26T00:00:00.000Z',
    'Freight': 249.93,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10788,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-12-22T00:00:00.000Z',
    'ShippedDate': '1998-01-19T00:00:00.000Z',
    'Freight': 42.7,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10789,
    'CustomerID': 'FOLIG',
    'OrderDate': '1997-12-22T00:00:00.000Z',
    'ShippedDate': '1997-12-31T00:00:00.000Z',
    'Freight': 100.6,
    'ShipName': 'Folies gourmandes',
    'ShipAddress': '184, chaussée de Tournai',
    'ShipCity': 'Lille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10790,
    'CustomerID': 'GOURL',
    'OrderDate': '1997-12-22T00:00:00.000Z',
    'ShippedDate': '1997-12-26T00:00:00.000Z',
    'Freight': 28.23,
    'ShipName': 'Gourmet Lanchonetes',
    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10791,
    'CustomerID': 'FRANK',
    'OrderDate': '1997-12-23T00:00:00.000Z',
    'ShippedDate': '1998-01-01T00:00:00.000Z',
    'Freight': 16.85,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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    'OrderID': 10792,
    'CustomerID': 'WOLZA',
    'OrderDate': '1997-12-23T00:00:00.000Z',
    'ShippedDate': '1997-12-31T00:00:00.000Z',
    'Freight': 23.79,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 10793,
    'CustomerID': 'AROUT',
    'OrderDate': '1997-12-24T00:00:00.000Z',
    'ShippedDate': '1998-01-08T00:00:00.000Z',
    'Freight': 4.52,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10794,
    'CustomerID': 'QUEDE',
    'OrderDate': '1997-12-24T00:00:00.000Z',
    'ShippedDate': '1998-01-02T00:00:00.000Z',
    'Freight': 21.49,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10795,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-24T00:00:00.000Z',
    'ShippedDate': '1998-01-20T00:00:00.000Z',
    'Freight': 126.66,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10796,
    'CustomerID': 'HILAA',
    'OrderDate': '1997-12-25T00:00:00.000Z',
    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 26.52,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
  }

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      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10797,
      'CustomerID': 'DRACD',
      'OrderDate': '1997-12-25T00:00:00.000Z',
      'ShippedDate': '1998-01-05T00:00:00.000Z',
      'Freight': 33.35,
      'ShipName': 'Drachenblut Delikatessen',
      'ShipAddress': 'Walserweg 21',
      'ShipCity': 'Aachen',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10798,
      'CustomerID': 'ISLAT',
      'OrderDate': '1997-12-26T00:00:00.000Z',
      'ShippedDate': '1998-01-05T00:00:00.000Z',
      'Freight': 2.33,
      'ShipName': 'Island Trading',
      'ShipAddress': 'Garden House Crowther Way',
      'ShipCity': 'Cowes',
      'ShipRegion': 'Isle of Wight',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10799,
      'CustomerID': 'KOENE',
      'OrderDate': '1997-12-26T00:00:00.000Z',
      'ShippedDate': '1998-01-05T00:00:00.000Z',
      'Freight': 30.76,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10800,
      'CustomerID': 'SEVES',
      'OrderDate': '1997-12-26T00:00:00.000Z',
      'ShippedDate': '1998-01-05T00:00:00.000Z',
      'Freight': 137.44,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10801,
      'CustomerID': 'BOLID',
      'OrderDate': '1997-12-29T00:00:00.000Z',
      'ShippedDate': '1997-12-31T00:00:00.000Z',
      'Freight': 97.09,
      'ShipName': 'Bólido Comidas preparadas',

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      'ShipAddress': 'C/ Araquil, 67',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10802,
      'CustomerID': 'SIMOB',
      'OrderDate': '1997-12-29T00:00:00.000Z',
      'ShippedDate': '1998-01-02T00:00:00.000Z',
      'Freight': 257.26,
      'ShipName': 'Simons bistro',
      'ShipAddress': 'Vinbæltet 34',
      'ShipCity': 'Kobenhavn',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10803,
      'CustomerID': 'WELLI',
      'OrderDate': '1997-12-30T00:00:00.000Z',
      'ShippedDate': '1998-01-06T00:00:00.000Z',
      'Freight': 55.23,
      'ShipName': 'Wellington Importadora',
      'ShipAddress': 'Rua do Mercado, 12',
      'ShipCity': 'Resende',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10804,
      'CustomerID': 'SEVES',
      'OrderDate': '1997-12-30T00:00:00.000Z',
      'ShippedDate': '1998-01-07T00:00:00.000Z',
      'Freight': 27.33,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10805,
      'CustomerID': 'THEBI',
      'OrderDate': '1997-12-30T00:00:00.000Z',
      'ShippedDate': '1998-01-09T00:00:00.000Z',
      'Freight': 237.34,
      'ShipName': 'The Big Cheese',
      'ShipAddress': '89 Jefferson Way Suite 2',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10806,
      'CustomerID': 'VICTE',
      'OrderDate': '1997-12-31T00:00:00.000Z',

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    'ShippedDate': '1998-01-05T00:00:00.000Z',
    'Freight': 22.11,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10807,
    'CustomerID': 'FRANS',
    'OrderDate': '1997-12-31T00:00:00.000Z',
    'ShippedDate': '1998-01-30T00:00:00.000Z',
    'Freight': 1.36,
    'ShipName': 'Franchi S.p.A.',
    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10808,
    'CustomerID': 'OLDWO',
    'OrderDate': '1998-01-01T00:00:00.000Z',
    'ShippedDate': '1998-01-09T00:00:00.000Z',
    'Freight': 45.53,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
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    'ShippedDate': '1998-01-07T00:00:00.000Z',
    'Freight': 4.87,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'LAUGB',
    'OrderDate': '1998-01-01T00:00:00.000Z',
    'ShippedDate': '1998-01-07T00:00:00.000Z',
    'Freight': 4.33,
    'ShipName': 'Laughing Bacchus Wine Cellars',
    'ShipAddress': '2319 Elm St.',
    'ShipCity': 'Vancouver',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
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    'ShippedDate': '1998-01-08T00:00:00.000Z',
    'Freight': 31.22,
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    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'REGGC',
    'OrderDate': '1998-01-02T00:00:00.000Z',
    'ShippedDate': '1998-01-12T00:00:00.000Z',
    'Freight': 59.78,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10813,
    'CustomerID': 'RICAR',
    'OrderDate': '1998-01-05T00:00:00.000Z',
    'ShippedDate': '1998-01-09T00:00:00.000Z',
    'Freight': 47.38,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10814,
    'CustomerID': 'VICTE',
    'OrderDate': '1998-01-05T00:00:00.000Z',
    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 130.94,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10815,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-01-05T00:00:00.000Z',
    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 14.62,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',

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  },
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    'CustomerID': 'GREAL',
    'OrderDate': '1998-01-06T00:00:00.000Z',
    'ShippedDate': '1998-02-04T00:00:00.000Z',
    'Freight': 719.78,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10817,
    'CustomerID': 'KOENE',
    'OrderDate': '1998-01-06T00:00:00.000Z',
    'ShippedDate': '1998-01-13T00:00:00.000Z',
    'Freight': 306.07,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10818,
    'CustomerID': 'MAGAA',
    'OrderDate': '1998-01-07T00:00:00.000Z',
    'ShippedDate': '1998-01-12T00:00:00.000Z',
    'Freight': 65.48,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
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    'CustomerID': 'CACTU',
    'OrderDate': '1998-01-07T00:00:00.000Z',
    'ShippedDate': '1998-01-16T00:00:00.000Z',
    'Freight': 19.76,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
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    'OrderID': 10820,
    'CustomerID': 'RATTC',
    'OrderDate': '1998-01-07T00:00:00.000Z',
    'ShippedDate': '1998-01-13T00:00:00.000Z',
    'Freight': 37.52,
    'ShipName': 'Rattlesnake Canyon Grocery',

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      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
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    {
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      'CustomerID': 'SPLIR',
      'OrderDate': '1998-01-08T00:00:00.000Z',
      'ShippedDate': '1998-01-15T00:00:00.000Z',
      'Freight': 36.68,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'TRAIH',
      'OrderDate': '1998-01-08T00:00:00.000Z',
      'ShippedDate': '1998-01-16T00:00:00.000Z',
      'Freight': 7,
      'ShipName': 'Trail\' Head Gourmet Provisioners',
      'ShipAddress': '722 DaVinci Blvd.',
      'ShipCity': 'Kirkland',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10823,
      'CustomerID': 'LILAS',
      'OrderDate': '1998-01-09T00:00:00.000Z',
      'ShippedDate': '1998-01-13T00:00:00.000Z',
      'Freight': 163.97,
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      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
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      'CustomerID': 'FOLKO',
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      'Freight': 1.23,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10825,
      'CustomerID': 'DRACD',
      'OrderDate': '1998-01-09T00:00:00.000Z',

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    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 79.25,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'BLONP',
    'OrderDate': '1998-01-12T00:00:00.000Z',
    'ShippedDate': '1998-02-06T00:00:00.000Z',
    'Freight': 7.09,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10827,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-01-12T00:00:00.000Z',
    'ShippedDate': '1998-02-06T00:00:00.000Z',
    'Freight': 63.54,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10828,
    'CustomerID': 'RANCH',
    'OrderDate': '1998-01-13T00:00:00.000Z',
    'ShippedDate': '1998-02-04T00:00:00.000Z',
    'Freight': 90.85,
    'ShipName': 'Rancho grande',
    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10829,
    'CustomerID': 'ISLAT',
    'OrderDate': '1998-01-13T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 154.72,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {

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      'OrderDate': '1998-01-13T00:00:00.000Z',
      'ShippedDate': '1998-01-21T00:00:00.000Z',
      'Freight': 81.83,
      'ShipName': 'Tradiçao Hipermercados',
      'ShipAddress': 'Av. Inês de Castro, 414',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10831,
      'CustomerID': 'SANTG',
      'OrderDate': '1998-01-14T00:00:00.000Z',
      'ShippedDate': '1998-01-23T00:00:00.000Z',
      'Freight': 72.19,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkes gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    },
    {
      'OrderID': 10832,
      'CustomerID': 'LAMAI',
      'OrderDate': '1998-01-14T00:00:00.000Z',
      'ShippedDate': '1998-01-19T00:00:00.000Z',
      'Freight': 43.26,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10833,
      'CustomerID': 'OTTIK',
      'OrderDate': '1998-01-15T00:00:00.000Z',
      'ShippedDate': '1998-01-23T00:00:00.000Z',
      'Freight': 71.49,
      'ShipName': 'Ottilies Käseladen',
      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10834,
      'CustomerID': 'TRADH',
      'OrderDate': '1998-01-15T00:00:00.000Z',
      'ShippedDate': '1998-01-19T00:00:00.000Z',
      'Freight': 29.78,
      'ShipName': 'Tradiçao Hipermercados',
      'ShipAddress': 'Av. Inês de Castro, 414',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',

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    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'ALFKI',
    'OrderDate': '1998-01-15T00:00:00.000Z',
    'ShippedDate': '1998-01-21T00:00:00.000Z',
    'Freight': 69.53,
    'ShipName': 'Alfred\ Futterkiste',
    'ShipAddress': 'Obere Str. 57',
    'ShipCity': 'Berlin',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10836,
    'CustomerID': 'ERNSH',
    'OrderDate': '1998-01-16T00:00:00.000Z',
    'ShippedDate': '1998-01-21T00:00:00.000Z',
    'Freight': 411.88,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10837,
    'CustomerID': 'BERGS',
    'OrderDate': '1998-01-16T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 13.32,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'LINOD',
    'OrderDate': '1998-01-19T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 59.28,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10839,
    'CustomerID': 'TRADH',
    'OrderDate': '1998-01-19T00:00:00.000Z',
    'ShippedDate': '1998-01-22T00:00:00.000Z',
    'Freight': 35.43,
    'ShipName': 'Tradiçao Hipermercados',

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    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'CustomerID': 'LINOD',
    'OrderDate': '1998-01-19T00:00:00.000Z',
    'ShippedDate': '1998-02-16T00:00:00.000Z',
    'Freight': 2.71,
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    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'SUPRD',
    'OrderDate': '1998-01-20T00:00:00.000Z',
    'ShippedDate': '1998-01-29T00:00:00.000Z',
    'Freight': 424.3,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10842,
    'CustomerID': 'TORTU',
    'OrderDate': '1998-01-20T00:00:00.000Z',
    'ShippedDate': '1998-01-29T00:00:00.000Z',
    'Freight': 54.42,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10843,
    'CustomerID': 'VICTE',
    'OrderDate': '1998-01-21T00:00:00.000Z',
    'ShippedDate': '1998-01-26T00:00:00.000Z',
    'Freight': 9.26,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10844,
    'CustomerID': 'PICCO',
    'OrderDate': '1998-01-21T00:00:00.000Z',

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    'ShippedDate': '1998-01-26T00:00:00.000Z',
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    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10845,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-01-21T00:00:00.000Z',
    'ShippedDate': '1998-01-30T00:00:00.000Z',
    'Freight': 212.98,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10846,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-01-22T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 56.46,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10847,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-01-22T00:00:00.000Z',
    'ShippedDate': '1998-02-10T00:00:00.000Z',
    'Freight': 487.57,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10848,
    'CustomerID': 'CONSH',
    'OrderDate': '1998-01-23T00:00:00.000Z',
    'ShippedDate': '1998-01-29T00:00:00.000Z',
    'Freight': 38.24,
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    'ShipAddress': 'Berkeley Gardens 12 Brewery',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {

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      'OrderID': 10849,
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      'OrderDate': '1998-01-23T00:00:00.000Z',
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      'Freight': 0.56,
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      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10850,
      'CustomerID': 'VICTE',
      'OrderDate': '1998-01-23T00:00:00.000Z',
      'ShippedDate': '1998-01-30T00:00:00.000Z',
      'Freight': 49.19,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10851,
      'CustomerID': 'RICAR',
      'OrderDate': '1998-01-26T00:00:00.000Z',
      'ShippedDate': '1998-02-02T00:00:00.000Z',
      'Freight': 160.55,
      'ShipName': 'Ricardo Adocicados',
      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10852,
      'CustomerID': 'RATTC',
      'OrderDate': '1998-01-26T00:00:00.000Z',
      'ShippedDate': '1998-01-30T00:00:00.000Z',
      'Freight': 174.05,
      'ShipName': 'Rattlesnake Canyon Grocery',
      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10853,
      'CustomerID': 'BLAUS',
      'OrderDate': '1998-01-27T00:00:00.000Z',
      'ShippedDate': '1998-02-03T00:00:00.000Z',
      'Freight': 53.83,
      'ShipName': 'Blauer See Delikatessen',
      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,

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    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10854,
    'CustomerID': 'ERNSH',
    'OrderDate': '1998-01-27T00:00:00.000Z',
    'ShippedDate': '1998-02-05T00:00:00.000Z',
    'Freight': 100.22,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10855,
    'CustomerID': 'OLDWO',
    'OrderDate': '1998-01-27T00:00:00.000Z',
    'ShippedDate': '1998-02-04T00:00:00.000Z',
    'Freight': 170.97,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10856,
    'CustomerID': 'ANTON',
    'OrderDate': '1998-01-28T00:00:00.000Z',
    'ShippedDate': '1998-02-10T00:00:00.000Z',
    'Freight': 58.43,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10857,
    'CustomerID': 'BERGS',
    'OrderDate': '1998-01-28T00:00:00.000Z',
    'ShippedDate': '1998-02-06T00:00:00.000Z',
    'Freight': 188.85,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10858,
    'CustomerID': 'LACOR',
    'OrderDate': '1998-01-29T00:00:00.000Z',
    'ShippedDate': '1998-02-03T00:00:00.000Z',
    'Freight': 52.51,
    'ShipName': 'La corne d\'abondance',

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      'ShipAddress': '67, avenue de l\'Europe',
      'ShipCity': 'Versailles',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10859,
      'CustomerID': 'FRANK',
      'OrderDate': '1998-01-29T00:00:00.000Z',
      'ShippedDate': '1998-02-02T00:00:00.000Z',
      'Freight': 76.1,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10860,
      'CustomerID': 'FRANR',
      'OrderDate': '1998-01-29T00:00:00.000Z',
      'ShippedDate': '1998-02-04T00:00:00.000Z',
      'Freight': 19.26,
      'ShipName': 'France restauration',
      'ShipAddress': '54, rue Royale',
      'ShipCity': 'Nantes',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'WHITC',
      'OrderDate': '1998-01-30T00:00:00.000Z',
      'ShippedDate': '1998-02-17T00:00:00.000Z',
      'Freight': 14.93,
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      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10862,
      'CustomerID': 'LEHMS',
      'OrderDate': '1998-01-30T00:00:00.000Z',
      'ShippedDate': '1998-02-02T00:00:00.000Z',
      'Freight': 53.23,
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      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'HILAA',
      'OrderDate': '1998-02-02T00:00:00.000Z',

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      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
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      'CustomerID': 'AROUT',
      'OrderDate': '1998-02-02T00:00:00.000Z',
      'ShippedDate': '1998-02-09T00:00:00.000Z',
      'Freight': 3.04,
      'ShipName': 'Around the Horn',
      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'QUICK',
      'OrderDate': '1998-02-02T00:00:00.000Z',
      'ShippedDate': '1998-02-12T00:00:00.000Z',
      'Freight': 348.14,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10866,
      'CustomerID': 'BERGS',
      'OrderDate': '1998-02-03T00:00:00.000Z',
      'ShippedDate': '1998-02-12T00:00:00.000Z',
      'Freight': 109.11,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'LONEP',
      'OrderDate': '1998-02-03T00:00:00.000Z',
      'ShippedDate': '1998-02-11T00:00:00.000Z',
      'Freight': 1.93,
      'ShipName': 'Lonesome Pine Restaurant',
      'ShipAddress': '89 Chiaroscuro Rd.',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    }
  ],
  {

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    'OrderID': 10868,
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    'OrderDate': '1998-02-04T00:00:00.000Z',
    'ShippedDate': '1998-02-23T00:00:00.000Z',
    'Freight': 191.27,
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    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'SEVES',
    'OrderDate': '1998-02-04T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 143.28,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10870,
    'CustomerID': 'WOLZA',
    'OrderDate': '1998-02-04T00:00:00.000Z',
    'ShippedDate': '1998-02-13T00:00:00.000Z',
    'Freight': 12.04,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 10871,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-02-05T00:00:00.000Z',
    'ShippedDate': '1998-02-10T00:00:00.000Z',
    'Freight': 112.27,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10872,
    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-05T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 175.32,
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    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,

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    'ShipCountry': 'Spain'
  },
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    'OrderDate': '1998-02-06T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 0.82,
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    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10874,
    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-06T00:00:00.000Z',
    'ShippedDate': '1998-02-11T00:00:00.000Z',
    'Freight': 19.58,
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    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10875,
    'CustomerID': 'BERGS',
    'OrderDate': '1998-02-06T00:00:00.000Z',
    'ShippedDate': '1998-03-03T00:00:00.000Z',
    'Freight': 32.37,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
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    'CustomerID': 'BONAP',
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    'Freight': 60.42,
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    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'CustomerID': 'RICAR',
    'OrderDate': '1998-02-09T00:00:00.000Z',
    'ShippedDate': '1998-02-19T00:00:00.000Z',
    'Freight': 38.06,
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    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'QUICK',
    'OrderDate': '1998-02-10T00:00:00.000Z',
    'ShippedDate': '1998-02-12T00:00:00.000Z',
    'Freight': 46.69,
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    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10879,
    'CustomerID': 'WILMK',
    'OrderDate': '1998-02-10T00:00:00.000Z',
    'ShippedDate': '1998-02-12T00:00:00.000Z',
    'Freight': 8.5,
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    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10880,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-02-10T00:00:00.000Z',
    'ShippedDate': '1998-02-18T00:00:00.000Z',
    'Freight': 88.01,
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    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'CACTU',
    'OrderDate': '1998-02-11T00:00:00.000Z',
    'ShippedDate': '1998-02-18T00:00:00.000Z',
    'Freight': 2.84,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
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    'CustomerID': 'SAVEA',
    'OrderDate': '1998-02-11T00:00:00.000Z',

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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10883,
    'CustomerID': 'LONEP',
    'OrderDate': '1998-02-12T00:00:00.000Z',
    'ShippedDate': '1998-02-20T00:00:00.000Z',
    'Freight': 0.53,
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    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'LETSS',
    'OrderDate': '1998-02-12T00:00:00.000Z',
    'ShippedDate': '1998-02-13T00:00:00.000Z',
    'Freight': 90.97,
    'ShipName': 'Let\' Stop N Shop',
    'ShipAddress': '87 Polk St. Suite 5',
    'ShipCity': 'San Francisco',
    'ShipRegion': 'CA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10885,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-02-12T00:00:00.000Z',
    'ShippedDate': '1998-02-18T00:00:00.000Z',
    'Freight': 5.64,
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    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10886,
    'CustomerID': 'HANAR',
    'OrderDate': '1998-02-13T00:00:00.000Z',
    'ShippedDate': '1998-03-02T00:00:00.000Z',
    'Freight': 4.99,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  }
]

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    'Freight': 1.25,
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    'ShipAddress': 'Rambla de Cataluña, 23',
    'ShipCity': 'Barcelona',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10888,
    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-16T00:00:00.000Z',
    'ShippedDate': '1998-02-23T00:00:00.000Z',
    'Freight': 51.87,
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    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
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    'CustomerID': 'RATTC',
    'OrderDate': '1998-02-16T00:00:00.000Z',
    'ShippedDate': '1998-02-23T00:00:00.000Z',
    'Freight': 280.61,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'DUMON',
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    'ShippedDate': '1998-02-18T00:00:00.000Z',
    'Freight': 32.76,
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    'ShipAddress': '67, rue des Cinquante Otages',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10891,
    'CustomerID': 'LEHMS',
    'OrderDate': '1998-02-17T00:00:00.000Z',
    'ShippedDate': '1998-02-19T00:00:00.000Z',
    'Freight': 20.37,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,

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    'ShipCountry': 'Germany'
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    'CustomerID': 'MAISD',
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    'Freight': 120.27,
    'ShipName': 'Maison Dewey',
    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10893,
    'CustomerID': 'KOENE',
    'OrderDate': '1998-02-18T00:00:00.000Z',
    'ShippedDate': '1998-02-20T00:00:00.000Z',
    'Freight': 77.78,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10894,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-02-18T00:00:00.000Z',
    'ShippedDate': '1998-02-20T00:00:00.000Z',
    'Freight': 116.13,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10895,
    'CustomerID': 'ERNSH',
    'OrderDate': '1998-02-18T00:00:00.000Z',
    'ShippedDate': '1998-02-23T00:00:00.000Z',
    'Freight': 162.75,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10896,
    'CustomerID': 'MAISD',
    'OrderDate': '1998-02-19T00:00:00.000Z',
    'ShippedDate': '1998-02-27T00:00:00.000Z',
    'Freight': 32.45,
    'ShipName': 'Maison Dewey',

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    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
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    'CustomerID': 'HUNGO',
    'OrderDate': '1998-02-19T00:00:00.000Z',
    'ShippedDate': '1998-02-25T00:00:00.000Z',
    'Freight': 603.54,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10898,
    'CustomerID': 'OCEAN',
    'OrderDate': '1998-02-20T00:00:00.000Z',
    'ShippedDate': '1998-03-06T00:00:00.000Z',
    'Freight': 1.27,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
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    'CustomerID': 'LILAS',
    'OrderDate': '1998-02-20T00:00:00.000Z',
    'ShippedDate': '1998-02-26T00:00:00.000Z',
    'Freight': 1.21,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10900,
    'CustomerID': 'WELLI',
    'OrderDate': '1998-02-20T00:00:00.000Z',
    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 1.66,
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    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'HILAA',
    'OrderDate': '1998-02-23T00:00:00.000Z',

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    'ShippedDate': '1998-02-26T00:00:00.000Z',
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10902,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-02-23T00:00:00.000Z',
    'ShippedDate': '1998-03-03T00:00:00.000Z',
    'Freight': 44.15,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10903,
    'CustomerID': 'HANAR',
    'OrderDate': '1998-02-24T00:00:00.000Z',
    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 36.71,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10904,
    'CustomerID': 'WHITC',
    'OrderDate': '1998-02-24T00:00:00.000Z',
    'ShippedDate': '1998-02-27T00:00:00.000Z',
    'Freight': 162.95,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10905,
    'CustomerID': 'WELLI',
    'OrderDate': '1998-02-24T00:00:00.000Z',
    'ShippedDate': '1998-03-06T00:00:00.000Z',
    'Freight': 13.72,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  }
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      'ShippedDate': '1998-03-03T00:00:00.000Z',
      'Freight': 26.29,
      'ShipName': 'Wolski Zajazd',
      'ShipAddress': 'ul. Filtrowa 68',
      'ShipCity': 'Warszawa',
      'ShipRegion': null,
      'ShipCountry': 'Poland'
    },
    {
      'OrderID': 10907,
      'CustomerID': 'SPECB',
      'OrderDate': '1998-02-25T00:00:00.000Z',
      'ShippedDate': '1998-02-27T00:00:00.000Z',
      'Freight': 9.19,
      'ShipName': 'Spécialités du monde',
      'ShipAddress': '25, rue Lauriston',
      'ShipCity': 'Paris',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10908,
      'CustomerID': 'REGGC',
      'OrderDate': '1998-02-26T00:00:00.000Z',
      'ShippedDate': '1998-03-06T00:00:00.000Z',
      'Freight': 32.96,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'CustomerID': 'SANTG',
      'OrderDate': '1998-02-26T00:00:00.000Z',
      'ShippedDate': '1998-03-10T00:00:00.000Z',
      'Freight': 53.05,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkes gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    },
    {
      'OrderID': 10910,
      'CustomerID': 'WILMK',
      'OrderDate': '1998-02-26T00:00:00.000Z',
      'ShippedDate': '1998-03-04T00:00:00.000Z',
      'Freight': 38.11,
      'ShipName': 'Wilman Kala',
      'ShipAddress': 'Keskuskatu 45',
      'ShipCity': 'Helsinki',
      'ShipRegion': null,

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    'ShipCountry': 'Finland'
  },
  {
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    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-26T00:00:00.000Z',
    'ShippedDate': '1998-03-05T00:00:00.000Z',
    'Freight': 38.19,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10912,
    'CustomerID': 'HUNGO',
    'OrderDate': '1998-02-26T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 580.91,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10913,
    'CustomerID': 'QUEEN',
    'OrderDate': '1998-02-26T00:00:00.000Z',
    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 33.05,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10914,
    'CustomerID': 'QUEEN',
    'OrderDate': '1998-02-27T00:00:00.000Z',
    'ShippedDate': '1998-03-02T00:00:00.000Z',
    'Freight': 21.19,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10915,
    'CustomerID': 'TORTU',
    'OrderDate': '1998-02-27T00:00:00.000Z',
    'ShippedDate': '1998-03-02T00:00:00.000Z',
    'Freight': 3.51,
    'ShipName': 'Tortuga Restaurante',

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    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10916,
    'CustomerID': 'RANCH',
    'OrderDate': '1998-02-27T00:00:00.000Z',
    'ShippedDate': '1998-03-09T00:00:00.000Z',
    'Freight': 63.77,
    'ShipName': 'Rancho grande',
    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10917,
    'CustomerID': 'ROMEY',
    'OrderDate': '1998-03-02T00:00:00.000Z',
    'ShippedDate': '1998-03-11T00:00:00.000Z',
    'Freight': 8.29,
    'ShipName': 'Romero y tomillo',
    'ShipAddress': 'Gran Vía, 1',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10918,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-03-02T00:00:00.000Z',
    'ShippedDate': '1998-03-11T00:00:00.000Z',
    'Freight': 48.83,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10919,
    'CustomerID': 'LINOD',
    'OrderDate': '1998-03-02T00:00:00.000Z',
    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 19.8,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10920,
    'CustomerID': 'AROUT',
    'OrderDate': '1998-03-03T00:00:00.000Z',

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    'ShippedDate': '1998-03-09T00:00:00.000Z',
    'Freight': 29.61,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10921,
    'CustomerID': 'VAFFE',
    'OrderDate': '1998-03-03T00:00:00.000Z',
    'ShippedDate': '1998-03-09T00:00:00.000Z',
    'Freight': 176.48,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10922,
    'CustomerID': 'HANAR',
    'OrderDate': '1998-03-03T00:00:00.000Z',
    'ShippedDate': '1998-03-05T00:00:00.000Z',
    'Freight': 62.74,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10923,
    'CustomerID': 'LAMAI',
    'OrderDate': '1998-03-03T00:00:00.000Z',
    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 68.26,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10924,
    'CustomerID': 'BERGS',
    'OrderDate': '1998-03-04T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 151.52,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {

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    'OrderID': 10925,
    'CustomerID': 'HANAR',
    'OrderDate': '1998-03-04T00:00:00.000Z',
    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 2.27,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10926,
    'CustomerID': 'ANATR',
    'OrderDate': '1998-03-04T00:00:00.000Z',
    'ShippedDate': '1998-03-11T00:00:00.000Z',
    'Freight': 39.92,
    'ShipName': 'Ana Trujillo Emparedados y helados',
    'ShipAddress': 'Avda. de la Constitución 2222',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10927,
    'CustomerID': 'LACOR',
    'OrderDate': '1998-03-05T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 19.79,
    'ShipName': 'La corne d\'abondance',
    'ShipAddress': '67, avenue de l\'Europe',
    'ShipCity': 'Versailles',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10928,
    'CustomerID': 'GALED',
    'OrderDate': '1998-03-05T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 1.36,
    'ShipName': 'Galería del gastronómo',
    'ShipAddress': 'Rambla de Cataluña, 23',
    'ShipCity': 'Barcelona',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10929,
    'CustomerID': 'FRANK',
    'OrderDate': '1998-03-05T00:00:00.000Z',
    'ShippedDate': '1998-03-12T00:00:00.000Z',
    'Freight': 33.93,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
  }

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    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10930,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-03-06T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 15.55,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10931,
    'CustomerID': 'RICSU',
    'OrderDate': '1998-03-06T00:00:00.000Z',
    'ShippedDate': '1998-03-19T00:00:00.000Z',
    'Freight': 13.6,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10932,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-03-06T00:00:00.000Z',
    'ShippedDate': '1998-03-24T00:00:00.000Z',
    'Freight': 134.64,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10933,
    'CustomerID': 'ISLAT',
    'OrderDate': '1998-03-06T00:00:00.000Z',
    'ShippedDate': '1998-03-16T00:00:00.000Z',
    'Freight': 54.15,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10934,
    'CustomerID': 'LEHMS',
    'OrderDate': '1998-03-09T00:00:00.000Z',
    'ShippedDate': '1998-03-12T00:00:00.000Z',
    'Freight': 32.01,
    'ShipName': 'Lehmanns Marktstand',

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    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'WELLI',
    'OrderDate': '1998-03-09T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 47.59,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10936,
    'CustomerID': 'GREAL',
    'OrderDate': '1998-03-09T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 33.68,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10937,
    'CustomerID': 'CACTU',
    'OrderDate': '1998-03-10T00:00:00.000Z',
    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 31.51,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10938,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-03-10T00:00:00.000Z',
    'ShippedDate': '1998-03-16T00:00:00.000Z',
    'Freight': 31.89,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10939,
    'CustomerID': 'MAGAA',
    'OrderDate': '1998-03-10T00:00:00.000Z',

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    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 76.33,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10940,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-03-11T00:00:00.000Z',
    'ShippedDate': '1998-03-23T00:00:00.000Z',
    'Freight': 19.77,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10941,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-03-11T00:00:00.000Z',
    'ShippedDate': '1998-03-20T00:00:00.000Z',
    'Freight': 400.81,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10942,
    'CustomerID': 'REGGC',
    'OrderDate': '1998-03-11T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 17.95,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10943,
    'CustomerID': 'BSBEV',
    'OrderDate': '1998-03-11T00:00:00.000Z',
    'ShippedDate': '1998-03-19T00:00:00.000Z',
    'Freight': 2.17,
    'ShipName': 'B\ Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  }
]

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      'OrderID': 10944,
      'CustomerID': 'BOTTM',
      'OrderDate': '1998-03-12T00:00:00.000Z',
      'ShippedDate': '1998-03-13T00:00:00.000Z',
      'Freight': 52.92,
      'ShipName': 'Bottom-Dollar Markets',
      'ShipAddress': '23 Tsawassen Blvd.',
      'ShipCity': 'Tsawassen',
      'ShipRegion': 'BC',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10945,
      'CustomerID': 'MORGK',
      'OrderDate': '1998-03-12T00:00:00.000Z',
      'ShippedDate': '1998-03-18T00:00:00.000Z',
      'Freight': 10.22,
      'ShipName': 'Morgenstern Gesundkost',
      'ShipAddress': 'Heerstr. 22',
      'ShipCity': 'Leipzig',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10946,
      'CustomerID': 'VAFFE',
      'OrderDate': '1998-03-12T00:00:00.000Z',
      'ShippedDate': '1998-03-19T00:00:00.000Z',
      'Freight': 27.2,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10947,
      'CustomerID': 'BSBEV',
      'OrderDate': '1998-03-13T00:00:00.000Z',
      'ShippedDate': '1998-03-16T00:00:00.000Z',
      'Freight': 3.26,
      'ShipName': 'B\ Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10948,
      'CustomerID': 'GODOS',
      'OrderDate': '1998-03-13T00:00:00.000Z',
      'ShippedDate': '1998-03-19T00:00:00.000Z',
      'Freight': 23.39,
      'ShipName': 'Godos Cocina Típica',
      'ShipAddress': 'C/ Romero, 33',
      'ShipCity': 'Sevilla',
      'ShipRegion': null,

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    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10949,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-03-13T00:00:00.000Z',
    'ShippedDate': '1998-03-17T00:00:00.000Z',
    'Freight': 74.44,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10950,
    'CustomerID': 'MAGAA',
    'OrderDate': '1998-03-16T00:00:00.000Z',
    'ShippedDate': '1998-03-23T00:00:00.000Z',
    'Freight': 2.5,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10951,
    'CustomerID': 'RICSU',
    'OrderDate': '1998-03-16T00:00:00.000Z',
    'ShippedDate': '1998-04-07T00:00:00.000Z',
    'Freight': 30.85,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10952,
    'CustomerID': 'ALFKI',
    'OrderDate': '1998-03-16T00:00:00.000Z',
    'ShippedDate': '1998-03-24T00:00:00.000Z',
    'Freight': 40.42,
    'ShipName': 'Alfred\ Futterkiste',
    'ShipAddress': 'Obere Str. 57',
    'ShipCity': 'Berlin',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10953,
    'CustomerID': 'AROUT',
    'OrderDate': '1998-03-16T00:00:00.000Z',
    'ShippedDate': '1998-03-25T00:00:00.000Z',
    'Freight': 23.72,
    'ShipName': 'Around the Horn',

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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10954,
    'CustomerID': 'LINOD',
    'OrderDate': '1998-03-17T00:00:00.000Z',
    'ShippedDate': '1998-03-20T00:00:00.000Z',
    'Freight': 27.91,
    'ShipName': 'LINO-Delicatesses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10955,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-03-17T00:00:00.000Z',
    'ShippedDate': '1998-03-20T00:00:00.000Z',
    'Freight': 3.26,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10956,
    'CustomerID': 'BLAUS',
    'OrderDate': '1998-03-17T00:00:00.000Z',
    'ShippedDate': '1998-03-20T00:00:00.000Z',
    'Freight': 44.65,
    'ShipName': 'Blauer See Delikatessen',
    'ShipAddress': 'Forsterstr. 57',
    'ShipCity': 'Mannheim',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10957,
    'CustomerID': 'HILAA',
    'OrderDate': '1998-03-18T00:00:00.000Z',
    'ShippedDate': '1998-03-27T00:00:00.000Z',
    'Freight': 105.36,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10958,
    'CustomerID': 'OCEAN',
    'OrderDate': '1998-03-18T00:00:00.000Z',

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    'ShippedDate': '1998-03-27T00:00:00.000Z',
    'Freight': 49.56,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10959,
    'CustomerID': 'GOURL',
    'OrderDate': '1998-03-18T00:00:00.000Z',
    'ShippedDate': '1998-03-23T00:00:00.000Z',
    'Freight': 4.98,
    'ShipName': 'Gourmet Lanchonetes',
    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10960,
    'CustomerID': 'HILAA',
    'OrderDate': '1998-03-19T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 2.08,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10961,
    'CustomerID': 'QUEEN',
    'OrderDate': '1998-03-19T00:00:00.000Z',
    'ShippedDate': '1998-03-30T00:00:00.000Z',
    'Freight': 104.47,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10962,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-03-19T00:00:00.000Z',
    'ShippedDate': '1998-03-23T00:00:00.000Z',
    'Freight': 275.79,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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    'OrderID': 10963,
    'CustomerID': 'FURIB',
    'OrderDate': '1998-03-19T00:00:00.000Z',
    'ShippedDate': '1998-03-26T00:00:00.000Z',
    'Freight': 2.7,
    'ShipName': 'Furia Bacalhau e Frutos do Mar',
    'ShipAddress': 'Jardim das rosas n. 32',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10964,
    'CustomerID': 'SPECB',
    'OrderDate': '1998-03-20T00:00:00.000Z',
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    'Freight': 87.38,
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    'ShipAddress': '25, rue Lauriston',
    'ShipCity': 'Paris',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'ShippedDate': '1998-03-30T00:00:00.000Z',
    'Freight': 144.38,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10966,
    'CustomerID': 'CHOPS',
    'OrderDate': '1998-03-20T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 27.19,
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    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
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    'CustomerID': 'TOMSP',
    'OrderDate': '1998-03-23T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 62.22,
    'ShipName': 'Toms Spezialitäten',
    'ShipAddress': 'Luisenstr. 48',
    'ShipCity': 'Münster',
    'ShipRegion': null,

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    'ShipCountry': 'Germany'
  },
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    'CustomerID': 'ERNSH',
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    'ShippedDate': '1998-04-01T00:00:00.000Z',
    'Freight': 74.6,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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    'ShippedDate': '1998-03-30T00:00:00.000Z',
    'Freight': 0.21,
    'ShipName': 'Comércio Mineiro',
    'ShipAddress': 'Av. dos Lusíadas, 23',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'BOLID',
    'OrderDate': '1998-03-24T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 16.16,
    'ShipName': 'Bólido Comidas preparadas',
    'ShipAddress': 'C/ Araquil, 67',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10971,
    'CustomerID': 'FRANR',
    'OrderDate': '1998-03-24T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 121.82,
    'ShipName': 'France restauration',
    'ShipAddress': '54, rue Royale',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10972,
    'CustomerID': 'LACOR',
    'OrderDate': '1998-03-24T00:00:00.000Z',
    'ShippedDate': '1998-03-26T00:00:00.000Z',
    'Freight': 0.02,
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      'ShipAddress': '67, avenue de l\'Europe',
      'ShipCity': 'Versailles',
      'ShipRegion': null,
      'ShipCountry': 'France'
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      'CustomerID': 'LACOR',
      'OrderDate': '1998-03-24T00:00:00.000Z',
      'ShippedDate': '1998-03-27T00:00:00.000Z',
      'Freight': 15.17,
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      'ShipAddress': '67, avenue de l\'Europe',
      'ShipCity': 'Versailles',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'SPLIR',
      'OrderDate': '1998-03-25T00:00:00.000Z',
      'ShippedDate': '1998-04-03T00:00:00.000Z',
      'Freight': 12.96,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10975,
      'CustomerID': 'BOTTM',
      'OrderDate': '1998-03-25T00:00:00.000Z',
      'ShippedDate': '1998-03-27T00:00:00.000Z',
      'Freight': 32.27,
      'ShipName': 'Bottom-Dollar Markets',
      'ShipAddress': '23 Tsawassen Blvd.',
      'ShipCity': 'Tsawassen',
      'ShipRegion': 'BC',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10976,
      'CustomerID': 'HILAA',
      'OrderDate': '1998-03-25T00:00:00.000Z',
      'ShippedDate': '1998-04-03T00:00:00.000Z',
      'Freight': 37.97,
      'ShipName': 'HILARION-Abastos',
      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10977,
      'CustomerID': 'FOLKO',
      'OrderDate': '1998-03-26T00:00:00.000Z',

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    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10978,
    'CustomerID': 'MAISD',
    'OrderDate': '1998-03-26T00:00:00.000Z',
    'ShippedDate': '1998-04-23T00:00:00.000Z',
    'Freight': 32.82,
    'ShipName': 'Maison Dewey',
    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10979,
    'CustomerID': 'ERNSH',
    'OrderDate': '1998-03-26T00:00:00.000Z',
    'ShippedDate': '1998-03-31T00:00:00.000Z',
    'Freight': 353.07,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10980,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-03-27T00:00:00.000Z',
    'ShippedDate': '1998-04-17T00:00:00.000Z',
    'Freight': 1.26,
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    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'HANAR',
    'OrderDate': '1998-03-27T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 193.37,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {

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      'CustomerID': 'BOTTM',
      'OrderDate': '1998-03-27T00:00:00.000Z',
      'ShippedDate': '1998-04-08T00:00:00.000Z',
      'Freight': 14.01,
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      'ShipAddress': '23 Tsawassen Blvd.',
      'ShipCity': 'Tsawassen',
      'ShipRegion': 'BC',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10983,
      'CustomerID': 'SAVEA',
      'OrderDate': '1998-03-27T00:00:00.000Z',
      'ShippedDate': '1998-04-06T00:00:00.000Z',
      'Freight': 657.54,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10984,
      'CustomerID': 'SAVEA',
      'OrderDate': '1998-03-30T00:00:00.000Z',
      'ShippedDate': '1998-04-03T00:00:00.000Z',
      'Freight': 211.22,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'HUNGO',
      'OrderDate': '1998-03-30T00:00:00.000Z',
      'ShippedDate': '1998-04-02T00:00:00.000Z',
      'Freight': 91.51,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
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      'CustomerID': 'OCEAN',
      'OrderDate': '1998-03-30T00:00:00.000Z',
      'ShippedDate': '1998-04-21T00:00:00.000Z',
      'Freight': 217.86,
      'ShipName': 'Océano Atlántico Ltda.',
      'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,

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  },
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    'CustomerID': 'EASTC',
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    'Freight': 185.48,
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    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10988,
    'CustomerID': 'RATTC',
    'OrderDate': '1998-03-31T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 61.14,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10989,
    'CustomerID': 'QUEDE',
    'OrderDate': '1998-03-31T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 34.76,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10990,
    'CustomerID': 'ERNSH',
    'OrderDate': '1998-04-01T00:00:00.000Z',
    'ShippedDate': '1998-04-07T00:00:00.000Z',
    'Freight': 117.61,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10991,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-04-01T00:00:00.000Z',
    'ShippedDate': '1998-04-07T00:00:00.000Z',
    'Freight': 38.51,
    'ShipName': 'QUICK-Stop',

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      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'OrderDate': '1998-04-01T00:00:00.000Z',
      'ShippedDate': '1998-04-03T00:00:00.000Z',
      'Freight': 4.27,
      'ShipName': 'The Big Cheese',
      'ShipAddress': '89 Jefferson Way Suite 2',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10993,
      'CustomerID': 'FOLKO',
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      'ShippedDate': '1998-04-10T00:00:00.000Z',
      'Freight': 8.81,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'VAFFE',
      'OrderDate': '1998-04-02T00:00:00.000Z',
      'ShippedDate': '1998-04-09T00:00:00.000Z',
      'Freight': 65.53,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
      'OrderID': 10995,
      'CustomerID': 'PERIC',
      'OrderDate': '1998-04-02T00:00:00.000Z',
      'ShippedDate': '1998-04-06T00:00:00.000Z',
      'Freight': 46,
      'ShipName': 'Pericles Comidas clásicas',
      'ShipAddress': 'Calle Dr. Jorge Cash 321',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
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      'CustomerID': 'QUICK',
      'OrderDate': '1998-04-02T00:00:00.000Z',

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    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 1.12,
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    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10997,
    'CustomerID': 'LILAS',
    'OrderDate': '1998-04-03T00:00:00.000Z',
    'ShippedDate': '1998-04-13T00:00:00.000Z',
    'Freight': 73.91,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10998,
    'CustomerID': 'WOLZA',
    'OrderDate': '1998-04-03T00:00:00.000Z',
    'ShippedDate': '1998-04-17T00:00:00.000Z',
    'Freight': 20.31,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 10999,
    'CustomerID': 'OTTIK',
    'OrderDate': '1998-04-03T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 96.35,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11000,
    'CustomerID': 'RATTC',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-14T00:00:00.000Z',
    'Freight': 55.12,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  }
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    'OrderDate': '1998-04-06T00:00:00.000Z',
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    'Freight': 197.3,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 11002,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-16T00:00:00.000Z',
    'Freight': 141.16,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11003,
    'CustomerID': 'THECR',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 14.91,
    'ShipName': 'The Cracker Box',
    'ShipAddress': '55 Grizzly Peak Rd.',
    'ShipCity': 'Butte',
    'ShipRegion': 'MT',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11004,
    'CustomerID': 'MAISD',
    'OrderDate': '1998-04-07T00:00:00.000Z',
    'ShippedDate': '1998-04-20T00:00:00.000Z',
    'Freight': 44.84,
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    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
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    'CustomerID': 'WILMK',
    'OrderDate': '1998-04-07T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 0.75,
    'ShipName': 'Wilman Kala',
    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,

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      'ShipCountry': 'Finland'
    },
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      'OrderID': 11006,
      'CustomerID': 'GREAL',
      'OrderDate': '1998-04-07T00:00:00.000Z',
      'ShippedDate': '1998-04-15T00:00:00.000Z',
      'Freight': 25.19,
      'ShipName': 'Great Lakes Food Market',
      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 11007,
      'CustomerID': 'PRINI',
      'OrderDate': '1998-04-08T00:00:00.000Z',
      'ShippedDate': '1998-04-13T00:00:00.000Z',
      'Freight': 202.24,
      'ShipName': 'Princesa Isabel Vinhos',
      'ShipAddress': 'Estrada da saúde n. 58',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 11008,
      'CustomerID': 'ERNSH',
      'OrderDate': '1998-04-08T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 79.46,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 11009,
      'CustomerID': 'GODOS',
      'OrderDate': '1998-04-08T00:00:00.000Z',
      'ShippedDate': '1998-04-10T00:00:00.000Z',
      'Freight': 59.11,
      'ShipName': 'Godos Cocina Típica',
      'ShipAddress': 'C/ Romero, 33',
      'ShipCity': 'Sevilla',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 11010,
      'CustomerID': 'REGGC',
      'OrderDate': '1998-04-09T00:00:00.000Z',
      'ShippedDate': '1998-04-21T00:00:00.000Z',
      'Freight': 28.71,
      'ShipName': 'Reggiani Caseifici',

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      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 11011,
      'CustomerID': 'ALFKI',
      'OrderDate': '1998-04-09T00:00:00.000Z',
      'ShippedDate': '1998-04-13T00:00:00.000Z',
      'Freight': 1.21,
      'ShipName': 'Alfred\ Futterkiste',
      'ShipAddress': 'Obere Str. 57',
      'ShipCity': 'Berlin',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 11012,
      'CustomerID': 'FRANK',
      'OrderDate': '1998-04-09T00:00:00.000Z',
      'ShippedDate': '1998-04-17T00:00:00.000Z',
      'Freight': 242.95,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 11013,
      'CustomerID': 'ROMEY',
      'OrderDate': '1998-04-09T00:00:00.000Z',
      'ShippedDate': '1998-04-10T00:00:00.000Z',
      'Freight': 32.99,
      'ShipName': 'Romero y tomillo',
      'ShipAddress': 'Gran Vía, 1',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 11014,
      'CustomerID': 'LINOD',
      'OrderDate': '1998-04-10T00:00:00.000Z',
      'ShippedDate': '1998-04-15T00:00:00.000Z',
      'Freight': 23.6,
      'ShipName': 'LINO-Delicateses',
      'ShipAddress': 'Ave. 5 de Mayo Porlamar',
      'ShipCity': 'I. de Margarita',
      'ShipRegion': 'Nueva Esparta',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 11015,
      'CustomerID': 'SANTG',
      'OrderDate': '1998-04-10T00:00:00.000Z',

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      'ShippedDate': '1998-04-20T00:00:00.000Z',
      'Freight': 4.62,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkess gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    },
    {
      'OrderID': 11016,
      'CustomerID': 'AROUT',
      'OrderDate': '1998-04-10T00:00:00.000Z',
      'ShippedDate': '1998-04-13T00:00:00.000Z',
      'Freight': 33.8,
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      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'ERNSH',
      'OrderDate': '1998-04-13T00:00:00.000Z',
      'ShippedDate': '1998-04-20T00:00:00.000Z',
      'Freight': 754.26,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
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      'CustomerID': 'LONEP',
      'OrderDate': '1998-04-13T00:00:00.000Z',
      'ShippedDate': '1998-04-16T00:00:00.000Z',
      'Freight': 11.65,
      'ShipName': 'Lonesome Pine Restaurant',
      'ShipAddress': '89 Chiaroscuro Rd.',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'RANCH',
      'OrderDate': '1998-04-13T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 3.17,
      'ShipName': 'Rancho grande',
      'ShipAddress': 'Av. del Libertador 900',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    }
  ],
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      'Freight': 43.3,
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      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'QUICK',
      'OrderDate': '1998-04-14T00:00:00.000Z',
      'ShippedDate': '1998-04-21T00:00:00.000Z',
      'Freight': 297.18,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 11022,
      'CustomerID': 'HANAR',
      'OrderDate': '1998-04-14T00:00:00.000Z',
      'ShippedDate': '1998-05-04T00:00:00.000Z',
      'Freight': 6.27,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
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      'CustomerID': 'BSBEV',
      'OrderDate': '1998-04-14T00:00:00.000Z',
      'ShippedDate': '1998-04-24T00:00:00.000Z',
      'Freight': 123.83,
      'ShipName': 'B\' Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'EASTC',
      'OrderDate': '1998-04-15T00:00:00.000Z',
      'ShippedDate': '1998-04-20T00:00:00.000Z',
      'Freight': 74.36,
      'ShipName': 'Eastern Connection',
      'ShipAddress': '35 King George',
      'ShipCity': 'London',
      'ShipRegion': null,

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    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 11026,
    'CustomerID': 'FRANS',
    'OrderDate': '1998-04-15T00:00:00.000Z',
    'ShippedDate': '1998-04-28T00:00:00.000Z',
    'Freight': 47.09,
    'ShipName': 'Franchi S.p.A.',
    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 11027,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-04-16T00:00:00.000Z',
    'ShippedDate': '1998-04-20T00:00:00.000Z',
    'Freight': 52.52,
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    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 11028,
    'CustomerID': 'KOENE',
    'OrderDate': '1998-04-16T00:00:00.000Z',
    'ShippedDate': '1998-04-22T00:00:00.000Z',
    'Freight': 29.59,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11029,
    'CustomerID': 'CHOPS',
    'OrderDate': '1998-04-16T00:00:00.000Z',
    'ShippedDate': '1998-04-27T00:00:00.000Z',
    'Freight': 47.84,
    'ShipName': 'Chop-suey Chinese',

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      'ShipCity': 'Bern',
      'ShipRegion': null,
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    },
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      'OrderDate': '1998-04-17T00:00:00.000Z',
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      'Freight': 830.75,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'SAVEA',
      'OrderDate': '1998-04-17T00:00:00.000Z',
      'ShippedDate': '1998-04-24T00:00:00.000Z',
      'Freight': 227.22,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'WHITC',
      'OrderDate': '1998-04-17T00:00:00.000Z',
      'ShippedDate': '1998-04-23T00:00:00.000Z',
      'Freight': 606.19,
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      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 11033,
      'CustomerID': 'RICSU',
      'OrderDate': '1998-04-17T00:00:00.000Z',
      'ShippedDate': '1998-04-23T00:00:00.000Z',
      'Freight': 84.74,
      'ShipName': 'Richter Supermarkt',
      'ShipAddress': 'Starenweg 5',
      'ShipCity': 'Genève',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 11034,
      'CustomerID': 'OLDWO',
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    'Freight': 40.32,
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    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11035,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-04-20T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 0.17,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 11036,
    'CustomerID': 'DRACD',
    'OrderDate': '1998-04-20T00:00:00.000Z',
    'ShippedDate': '1998-04-22T00:00:00.000Z',
    'Freight': 149.47,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'GODOS',
    'OrderDate': '1998-04-21T00:00:00.000Z',
    'ShippedDate': '1998-04-27T00:00:00.000Z',
    'Freight': 3.2,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 11038,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-04-21T00:00:00.000Z',
    'ShippedDate': '1998-04-30T00:00:00.000Z',
    'Freight': 29.59,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
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    'Freight': 65,
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    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 11040,
    'CustomerID': 'GREAL',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 18.84,
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    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11041,
    'CustomerID': 'CHOPS',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': '1998-04-28T00:00:00.000Z',
    'Freight': 48.22,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 11042,
    'CustomerID': 'COMMI',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 29.99,
    'ShipName': 'Comércio Mineiro',
    'ShipAddress': 'Av. dos Lusíadas, 23',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11043,
    'CustomerID': 'SPECB',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': '1998-04-29T00:00:00.000Z',
    'Freight': 8.8,
    'ShipName': 'Spécialités du monde',
    'ShipAddress': '25, rue Lauriston',
    'ShipCity': 'Paris',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
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    'OrderDate': '1998-04-23T00:00:00.000Z',
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    'Freight': 8.72,
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    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
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    'CustomerID': 'BOTTM',
    'OrderDate': '1998-04-23T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 70.58,
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    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'WANDK',
    'OrderDate': '1998-04-23T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 71.64,
    'ShipName': 'Die Wandernde Kuh',
    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11047,
    'CustomerID': 'EASTC',
    'OrderDate': '1998-04-24T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 46.62,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11048,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-04-24T00:00:00.000Z',
    'ShippedDate': '1998-04-30T00:00:00.000Z',
    'Freight': 24.12,
    'ShipName': 'Bottom-Dollar Markets',

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      'ShipAddress': '23 Tsawassen Blvd.',
      'ShipCity': 'Tsawassen',
      'ShipRegion': 'BC',
      'ShipCountry': 'Canada'
    },
    {
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      'CustomerID': 'GOURL',
      'OrderDate': '1998-04-24T00:00:00.000Z',
      'ShippedDate': '1998-05-04T00:00:00.000Z',
      'Freight': 8.34,
      'ShipName': 'Gourmet Lanchonetes',
      'ShipAddress': 'Av. Brasil, 442',
      'ShipCity': 'Campinas',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 11050,
      'CustomerID': 'FOLKO',
      'OrderDate': '1998-04-27T00:00:00.000Z',
      'ShippedDate': '1998-05-05T00:00:00.000Z',
      'Freight': 59.41,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 11051,
      'CustomerID': 'LAMAI',
      'OrderDate': '1998-04-27T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 2.79,
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      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 11052,
      'CustomerID': 'HANAR',
      'OrderDate': '1998-04-27T00:00:00.000Z',
      'ShippedDate': '1998-05-01T00:00:00.000Z',
      'Freight': 67.26,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'PICCO',
      'OrderDate': '1998-04-27T00:00:00.000Z',

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    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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    'CustomerID': 'CACTU',
    'OrderDate': '1998-04-28T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 0.33,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
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    'CustomerID': 'HILAA',
    'OrderDate': '1998-04-28T00:00:00.000Z',
    'ShippedDate': '1998-05-05T00:00:00.000Z',
    'Freight': 120.92,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 11056,
    'CustomerID': 'EASTC',
    'OrderDate': '1998-04-28T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 278.96,
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    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11057,
    'CustomerID': 'NORTS',
    'OrderDate': '1998-04-29T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 4.13,
    'ShipName': 'North/South',
    'ShipAddress': 'South House 300 Queensbridge',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {

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      'Freight': 31.14,
      'ShipName': 'Blauer See Delikatessen',
      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 11059,
      'CustomerID': 'RICAR',
      'OrderDate': '1998-04-29T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 85.8,
      'ShipName': 'Ricardo Adocicados',
      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 11060,
      'CustomerID': 'FRANS',
      'OrderDate': '1998-04-30T00:00:00.000Z',
      'ShippedDate': '1998-05-04T00:00:00.000Z',
      'Freight': 10.98,
      'ShipName': 'Franchi S.p.A.',
      'ShipAddress': 'Via Monte Bianco 34',
      'ShipCity': 'Torino',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'CustomerID': 'GREAL',
      'OrderDate': '1998-04-30T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 14.01,
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      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'REGGC',
      'OrderDate': '1998-04-30T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 29.93,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,

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    'ShipCountry': 'Italy'
  },
  {
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    'CustomerID': 'HUNGO',
    'OrderDate': '1998-04-30T00:00:00.000Z',
    'ShippedDate': '1998-05-06T00:00:00.000Z',
    'Freight': 81.73,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 11064,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-05-01T00:00:00.000Z',
    'ShippedDate': '1998-05-04T00:00:00.000Z',
    'Freight': 30.09,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11065,
    'CustomerID': 'LILAS',
    'OrderDate': '1998-05-01T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 12.91,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 11066,
    'CustomerID': 'WHITC',
    'OrderDate': '1998-05-01T00:00:00.000Z',
    'ShippedDate': '1998-05-04T00:00:00.000Z',
    'Freight': 44.72,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11067,
    'CustomerID': 'DRACD',
    'OrderDate': '1998-05-04T00:00:00.000Z',
    'ShippedDate': '1998-05-06T00:00:00.000Z',
    'Freight': 7.98,
    'ShipName': 'Drachenblut Delikatessen',

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      'ShipAddress': 'Walserweg 21',
      'ShipCity': 'Aachen',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'QUEEN',
      'OrderDate': '1998-05-04T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 81.75,
      'ShipName': 'Queen Cozinha',
      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 11069,
      'CustomerID': 'TORTU',
      'OrderDate': '1998-05-04T00:00:00.000Z',
      'ShippedDate': '1998-05-06T00:00:00.000Z',
      'Freight': 15.67,
      'ShipName': 'Tortuga Restaurante',
      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 11070,
      'CustomerID': 'LEHMS',
      'OrderDate': '1998-05-05T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 136,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 11071,
      'CustomerID': 'LILAS',
      'OrderDate': '1998-05-05T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 0.93,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 11072,
      'CustomerID': 'ERNSH',
      'OrderDate': '1998-05-05T00:00:00.000Z',

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    'ShippedDate': null,
    'Freight': 258.64,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 11073,
    'CustomerID': 'PERIC',
    'OrderDate': '1998-05-05T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 24.95,
    'ShipName': 'Pericles Comidas clásicas',
    'ShipAddress': 'Calle Dr. Jorge Cash 321',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 11074,
    'CustomerID': 'SIMOB',
    'OrderDate': '1998-05-06T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 18.44,
    'ShipName': 'Simons bistro',
    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 11075,
    'CustomerID': 'RICSU',
    'OrderDate': '1998-05-06T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 6.19,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 11076,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-05-06T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 38.28,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {

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        'OrderID': 11077,
        'CustomerID': 'RATTC',
        'OrderDate': '1998-05-06T00:00:00.000Z',
        'ShippedDate': null,
        'Freight': 8.53,
        'ShipName': 'Rattlesnake Canyon Grocery',
        'ShipAddress': '2817 Milton Dr.',
        'ShipCity': 'Albuquerque',
        'ShipRegion': 'NM',
        'ShipCountry': 'USA'
    }
  });
  export const orderData = JSON.parse(stringData, (field, value) => {
    let dupValue = value;
    if (typeof value === 'string' && /^(\\d{4}\\-\\d\\d\\-\\d\\d([tT][\\d:\\.\\.\\*]){1})([zZ]|([+\\-])(\\d\\d):(?(\\d\\d))?$/).test(value)) {
      let arr = dupValue.split(/^[^0-9]/);
      let arg = parseInt(arr[4], 10);
      let arg1 = parseInt(arr[5], 10);
      value = new Date(parseInt(arr[0], 10), parseInt(arr[1], 10) - 1,
        parseInt(arr[2], 10), parseInt(arr[3], 10), arg, arg1);
    }
    return value;
  });
  export var ProjectsData = [
    { Project: "Villa", Locality: "Los Angeles", Duration: 120, Gender:
    "Male", EstimateCost: 35.8,
      workStatus: [
        { Project: "Construction", Locality: "Los Angeles", Gender:
        "Male", Duration: 50, EstimateCost: 20.4,
          StartDate: new Date("06-07-2018"), AssignedTo: "Nick Jones",
          AssignedContactNumber: "+1903333", ProjectDone: 40,
          ProjectStatus: "Active" },
        { Project: "Painting", Locality: "Los Angeles", Gender: "Male",
          Duration: 25, EstimateCost: 5.2,
          StartDate: new Date("11-25-2018"), AssignedTo: "Nick Jones",
          AssignedContactNumber: "+1903333", ProjectDone: 10,
          ProjectStatus: "InActive" },
        { Project: "Electricals", Locality: "Los Angeles", Gender:
        "Male", Duration: 15, EstimateCost: 3.1,
          StartDate: new Date("10-03-2018"), AssignedTo: "Nick Jones",
          AssignedContactNumber: "+1903333", ProjectDone: 90,
          ProjectStatus: "Active" },
        { Project: "Interior Designs", Locality: "Los Angeles", Gender:
        "Male", Duration: 30, EstimateCost: 2.1,
          StartDate: new Date("10-23-2018"), AssignedTo: "Nick Jones",
          AssignedContactNumber: "+1903333", ProjectDone: 10,
          ProjectStatus: "InActive" },
      ],
      StartDate: new Date("06-07-2018"), AssignedTo: "Nick Jones",
      AssignedContactNumber: "+1903333", ProjectDone: 60, ProjectStatus: "Active"
    },
    { Project: "Apartment", Locality: "Boston", Duration: 250, EstimateCost:
    80.55, Gender: "Female",
      workStatus: [
        { Project: "Construction", Locality: "Boston", Duration: 110,
          Gender: "Female", EstimateCost: 80.55,

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        StartDate: new Date("08-25-2018"), AssignedTo: "Johan",
        AssignedContactNumber: "+196088", ProjectDone: 90,
ProjectStatus: "Active" },
    { Project: "Painting", Locality: "Boston", Duration: 60,
EstimateCost: 55.32, Gender: "Female",
        StartDate: new Date("12-20-2018"), AssignedTo: "Johan",
        AssignedContactNumber: "+196088", ProjectDone: 0,
ProjectStatus: "InActive" },
    { Project: "Electricals", Locality: "Boston", Duration: 40,
EstimateCost: 20.23, Gender: "Female",
        StartDate: new Date("01-26-2019"), AssignedTo: "Johan",
        AssignedContactNumber: "+196088", ProjectDone: 40,
ProjectStatus: "Active" },
    { Project: "Interior Designs", Locality: "Boston", Duration: 40,
EstimateCost: 5.0, Gender: "Female",
        StartDate: new Date("02-07-2019"), AssignedTo: "Johan",
        AssignedContactNumber: "+196088", ProjectDone: 10,
ProjectStatus: "InActive" },
    ],
    StartDate: new Date("08-25-2018"), AssignedTo: "Johan",
AssignedContactNumber: "+196088", ProjectDone: 55, ProjectStatus: "Active" }
];
export var treeGridDataSource = [
    {
        'Name': 'Windows',
        'DateModified': new Date('06/26/2017'),
        'Type': 'File Folder',
        'DateCreated': new Date('06/16/2017'),
        'Children': [
            {
                'Name': 'Users',
                'DateModified': new Date('06/26/2017'),
                'Type': 'File Folder',
                'DateCreated': new Date('06/16/2017'),
                'Children': [
                    {
                        'Name': 'Public',
                        'DateModified': new Date('06/26/2017'),
                        'Type': 'File Folder',
                        'DateCreated': new Date('06/16/2017'),
                        'Children': [
                            {
                                'Name': 'Documents ',
                                'DateModified': new Date('06/26/2017'),
                                'Type': 'File Folder',
                                'DateCreated': new Date('06/16/2017'),
                                'Children': [
                                    { 'Name': 'Document 1', 'DateModified':
new Date('06/26/2017'), 'Type': 'HTML document', 'DateCreated': new
Date('06/16/2017'), },
                                    { 'Name': 'Document 2', 'DateModified':
new Date('06/26/2017'), 'Type': 'HTML document', 'DateCreated': new
Date('06/16/2017'), },
                                    { 'Name': 'Document 3', 'DateModified':
new Date('06/26/2017'), 'Type': 'HTML document', 'DateCreated': new
Date('06/16/2017'), }
                                ]
                            }
                        ]
                    }
                ]
            }
        ]
    }
]

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    }
    ]
  }
]
}
];
export let sampleData2 = [];
export function dataSource1() {
  for (let i = 1; i < 500; i++) {
    sampleData2.push({
      taskID: i,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      subtasks: [
        {
          taskID: ++i,
          taskName: 'Phase 2',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/28/2017'),
          priority: 'High',
          approved: false,
          duration: 12,
          subtasks: [{
            taskID: ++i,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
          }]
        }
      ]
    });
  }
}
export var projectData = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'),
    'EndDate': new Date('02/27/2017'), 'Duration': 3, 'Progress': '40',
    'Priority': 'Normal' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'),
    'EndDate': new Date('02/27/2017'), 'Duration': 4, 'Progress': '40',
    'parentID': 1, 'Priority': 'Low' },
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'),
    'EndDate': new Date('02/27/2017'), 'Duration': 2, 'Progress': '40',
    'parentID': 2, 'Priority': 'Normal' },
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'),

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        'EndDate': new Date('02/27/2017'), 'Duration': 2, 'Progress': '40',
        'parentID': 1, 'Priority': 'Low' },
        { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'),
        'EndDate': new Date('03/18/2017'), 'Duration': 6, 'Progress': '40',
        'Priority': 'Normal' },
        { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'),
        'EndDate': new Date('03/06/2017'), 'Duration': 11, 'Progress': '40',
        'parentID': 5, 'Priority': 'High' },
        { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'),
        'EndDate': new Date('03/06/2017'), 'Duration': 7, 'Progress': '40',
        'parentID': 5, 'Priority': 'Critical' },
        { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'),
        'EndDate': new Date('03/06/2017'), 'Duration': 10, 'Progress': '40',
        'parentID': 5, 'Priority': 'Breaker' },
        { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'),
        'EndDate': new Date('03/06/2017'), 'Duration': 15, 'Progress': '40',
        'parentID': 5, 'Priority': 'High' },
        { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'),
        'EndDate': new Date('03/13/2017'), 'Duration': 17, 'Progress': '40',
        'Priority': 'Breaker' },
        { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'),
        'EndDate': new Date('03/13/2017'), 'Duration': 0, 'Progress': '40',
        'parentID': 10, 'Priority': 'Low' },
        { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'),
        'EndDate': new Date('03/13/2017'), 'Duration': 10, 'Progress': '40',
        'parentID': 10, 'Priority': 'Breaker' },
        { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'),
        'EndDate': new Date('03/13/2017'), 'Duration': 11, 'Progress': '40',
        'parentID': 10, 'Priority': 'Normal' },
        { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'),
        'EndDate': new Date('03/13/2017'), 'Duration': 1, 'Progress': '40',
        'parentID': 10, 'Priority': 'Normal' },
        { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'),
        'EndDate': new Date('03/13/2017'), 'Duration': 14, 'Progress': '40',
        'parentID': 10, 'Priority': 'Critical' }
    ];
export var sampleData = [
    {
        taskID: 1000,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
    }
];

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      subtasks: [{
        taskID: 1001,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
          { taskID: 1002, taskName: 'Development Task 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
            progress: '50', priority: 'Normal', approved: true },
          { taskID: 1003, taskName: 'Development Task 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
            progress: '50', priority: 'Critical', approved: true },
          { taskID: 1004, taskName: 'Testing', startDate: new
            Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
            progress: '0', priority: 'High', approved: false },
          { taskID: 1005, taskName: 'Bug fix', startDate: new
            Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
            progress: '0', priority: 'Low', approved: false },
          { taskID: 1006, taskName: 'Customer review meeting',
            startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
            progress: '0', priority: 'Critical', approved: true },
          { taskID: 1007, taskName: 'Phase 2 complete', startDate:
            new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
            progress: '50', priority: 'Normal', approved: false }
        ]
      }]
    }
  ];
  export var templateData = [{
    'Name': 'Robert King',
    'FullName': 'Robert King',
    'Designation': 'Chief Executive Officer',
    'EmployeeID': 'EMP001',
    'Address': '507 - 20th Ave. E.Apt. 2A, Seattle',
    'Contact': '(206) 555-9857',
    'Country': 'USA',
    'DOB': new Date('2/15/1963'),
    'DOJ': new Date('5/1/1983'),
    'Children': [{
      'Name': 'David william',
      'FullName': 'David william',
      'Designation': 'Vice President',
      'EmployeeID': 'EMP004',
      'Address': '722 Moss Bay Blvd., Kirkland',
      'Country': 'USA',
      'Contact': '(206) 555-3412',
      'DOB': new Date('5/20/1971'),
    }
  ]
}

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      'DOJ': new Date('5/1/1991'),
      'Children': [{
        'Name': 'Nancy Davolio',
        'FullName': 'Nancy Davolio',
        'Designation': 'Marketing Executive',
        'EmployeeID': 'EMP035',
        'Address': '4110 Old Redmond Rd., Redmond',
        'Country': 'USA',
        'Contact': '(206) 555-8122',
        'DOB': new Date('3/19/1966'),
        'DOJ': new Date('5/1/1986'),
        'Children': [
          {
            'Name': 'Andrew Fuller',
            'FullName': 'Andrew Fuller',
            'Designation': 'Sales Representative',
            'EmployeeID': 'EMP045',
            'Address': '14 Garrett Hill, London',
            'Country': 'UK',
            'Contact': '(71) 555-4848',
            'DOB': new Date('9/20/1980'),
            'DOJ': new Date('5/1/2000'),
          },
          {
            'Name': 'Anne Dodsworth',
            'FullName': 'Anne Dodsworth',
            'Designation': 'Sales Representative',
            'EmployeeID': 'EMP091',
            'Address': '4726 - 11th Ave. N.E., Seattle',
            'Country': 'USA',
            'Contact': '(206) 555-1189',
            'DOB': new Date('10/19/1989'),
            'DOJ': new Date('5/1/2009'),
          },
          {
            'Name': 'Michael Suyama',
            'FullName': 'Michael Suyama',
            'Designation': 'Sales Representative',
            'EmployeeID': 'EMP110',
            'Address': 'Coventry House Miner Rd.,
London',
            'Country': 'UK',
            'Contact': '(71) 555-3636',
            'DOB': new Date('11/02/1987'),
            'DOJ': new Date('5/1/2007'),
          },
          {
            'Name': 'Janet Leverling',
            'FullName': 'Janet Leverling',
            'Designation': 'Sales Coordinator',
            'EmployeeID': 'EMP131',
            'Address': 'Edgeham Hollow Winchester Way,
London',
            'Country': 'UK',
            'Contact': '(71) 555-3636',
            'DOB': new Date('11/06/1990'),
            'DOJ': new Date('5/1/2010'),
          }
        ]
      }
    ]
  }

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    },
  ],
},
{
  'Name': 'Romey Wilson',
  'FullName': 'Romey Wilson',
  'Designation': 'Sales Executive',
  'EmployeeID': 'EMP039',
  'Address': '7 Houndstooth Rd., London',
  'Country': 'UK',
  'Contact': '(71) 555-3690',
  'DOB': new Date('02/02/1980'),
  'DOJ': new Date('5/1/2000'),
  'Children': [
    {
      'Name': 'Margaret Peacock',
      'FullName': 'Margaret Peacock',
      'Designation': 'Sales Representative',
      'EmployeeID': 'EMP213',
      'Address': '4726 - 11th Ave. N.E.,
California',
      'Country': 'USA',
      'Contact': '(206) 555-1989',
      'DOB': new Date('01/21/1986'),
      'DOJ': new Date('5/1/2006'),
    },
    {
      'Name': 'Laura Callahan',
      'FullName': 'Laura Callahan',
      'Designation': 'Sales Coordinator',
      'EmployeeID': 'EMP201',
      'Address': 'Coventry House Miner Rd.,
London',
      'Country': 'UK',
      'Contact': '(71) 555-2222',
      'DOB': new Date('12/01/1990'),
      'DOJ': new Date('5/1/2010'),
    },
    {
      'Name': 'Steven Buchanan',
      'FullName': 'Steven Buchanan',
      'Designation': 'Sales Representative',
      'EmployeeID': 'EMP197',
      'Address': '200 Lincoln Ave, Salinas, CA
93901',
      'Country': 'USA',
      'Contact': '(831) 758-7408',
      'DOB': new Date('03/23/1987'),
      'DOJ': new Date('5/1/2007'),
    },
    {
      'Name': 'Tedd Lawson',
      'FullName': 'Tedd Lawson',
      'Designation': 'Sales Representative',
      'EmployeeID': 'EMP167',
      'Address': '200 Lincoln Ave, Salinas, CA
93901',

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        'Country': 'USA',
        'Contact': '(831) 758-7368 ',
        'DOB': new Date('08/09/1989'),
        'DOJ': new Date('5/1/2009'),
    },
    ],
    ]
    }
    }
    }];
export var summaryRowData = [{
    'FreightID': 'CX2389NK',
    'FreightName': 'Maersk Edibles Co.',
    'TotalUnits': 598,
    'TotalCosts': 27838,
    'UnitWeight': 241,
    'children': [{
        'FreightID': 'QW4567OP',
        'FreightName': 'Chang',
        'TotalUnits': 123,
        'TotalCosts': 3400,
        'UnitWeight': 50,
    }, {
        'FreightID': 'QW3458BH',
        'FreightName': 'Aniseed Syrup',
        'TotalUnits': 89,
        'TotalCosts': 5900,
        'UnitWeight': 87,
    }, {
        'FreightID': 'QW8967OH',
        'FreightName': 'Chef Antons Cajun Seasoning',
        'TotalUnits': 46,
        'TotalCosts': 9578,
        'UnitWeight': 54,
    }, {
        'FreightID': 'QW6549NJ',
        'FreightName': 'Chef Antons Gumbo Mix',
        'TotalUnits': 340,
        'TotalCosts': 8960,
        'UnitWeight': 50,
    }
    ]
},
{
    'FreightID': 'DW8954IO',
    'FreightName': 'Aeon fitness inc.',
    'TotalUnits': 1720,
    'TotalCosts': 24367,
    'UnitWeight': 296,
    'children': [
        {
            'FreightID': 'UF5647YH',
            'FreightName': 'Reebox CrossFit Back Bay',
            'TotalUnits': 600,
            'TotalCosts': 8700,
            'UnitWeight': 73,
        },
        {
            'FreightID': 'UF1290LK',

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        'FreightName': 'The Green Microgym',
        'TotalUnits': 569,
        'TotalCosts': 8765,
        'UnitWeight': 90,
    },
    {
        'FreightID': 'UF8956KU',
        'FreightName': 'DeFrancos',
        'TotalUnits': 456,
        'TotalCosts': 4589,
        'UnitWeight': 68,
    },
    {
        'FreightID': 'UF7464JK',
        'FreightName': 'Westside Barbell',
        'TotalUnits': 95,
        'TotalCosts': 2313,
        'UnitWeight': 65,
    }
],
},
{
    'FreightID': 'EJ9456KN',
    'FreightName': 'Sun technologies inc',
    'TotalUnits': 331,
    'TotalCosts': 22933,
    'UnitWeight': 192,
    'children': [
        {
            'FreightID': 'GH2367OP',
            'FreightName': 'Haier Group',
            'TotalUnits': 78,
            'TotalCosts': 6789,
            'UnitWeight': 23,
        },
        {
            'FreightID': 'GH4309TH',
            'FreightName': 'Panda Electronics',
            'TotalUnits': 90,
            'TotalCosts': 8999,
            'UnitWeight': 48,
        },
        {
            'FreightID': 'GH3494SD',
            'FreightName': 'Jiangsu Etern',
            'TotalUnits': 36,
            'TotalCosts': 4356,
            'UnitWeight': 56,
        },
        {
            'FreightID': 'GH3213FR',
            'FreightName': 'Zhejiang Fuchunjiang',
            'TotalUnits': 127,
            'TotalCosts': 2789,
            'UnitWeight': 65,
        }
    ]
},
],

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    }];
    export var headerData = [
      {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        subtasks: [
          { taskID: 2, taskName: 'Plan timeline', startDate: new
            Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
            '100', resourceId: '2' },
          { taskID: 3, taskName: 'Plan budget', startDate: new
            Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
            '100', resourceId: '1' },
          { taskID: 4, taskName: 'Allocate resources', startDate: new
            Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
            '100', resourceId: '1' },
          { taskID: 5, taskName: 'Planning complete', startDate: new
            Date('02/07/2017'), endDate: new Date('02/07/2017'), duration: 0,
            predecessor: '3FS,4FS,5FS' }
        ]
      },
      {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        subtasks: [
          { taskID: 7, taskName: 'Software Specification', startDate: new
            Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
            '60', predecessor: '6FS', resourceId: '2' },
          { taskID: 8, taskName: 'Develop prototype', startDate: new
            Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
            '100', predecessor: '6FS', resourceId: '3' },
          { taskID: 9, taskName: 'Get approval from customer', startDate:
            new Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2,
            progress: '100', predecessor: '9FS', resourceId: '1' },
          { taskID: 10, taskName: 'Design complete', startDate: new
            Date('02/14/2017'), endDate: new Date('02/14/2017'), duration: 0,
            predecessor: '10FS' }
        ]
      },
      {
        taskID: 11,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        subtasks: [
          {
            taskID: 12,
            taskName: 'Phase',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            subtasks: [{
              taskID: 13,
              taskName: 'Implementation Module',
              startDate: new Date('02/17/2017'),

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        endDate: new Date('02/27/2017'),
        subtasks: [
            { taskID: 14, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'), endDate: new Date('02/19/2017'),
duration: 3, progress: '50', predecessor: '11FS', resourceId: '3' },
            { taskID: 15, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'), endDate: new Date('02/19/2017'),
duration: 3, progress: '50', predecessor: '11FS', resourceId: '3' },
            { taskID: 16, taskName: 'Testing', startDate:
new Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2,
progress: '0', predecessor: '15FS,16FS', resourceId: '4' },
            { taskID: 17, taskName: 'Bug fix', startDate:
new Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2,
progress: '0', predecessor: '17FS', resourceId: '4' },
            { taskID: 18, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'), endDate: new
Date('02/27/2017'), duration: 2, progress: '0', predecessor: '18FS',
resourceId: '1' },
            { taskID: 19, taskName: 'Phase complete',
startDate: new Date('02/27/2017'), endDate: new Date('02/27/2017'),
duration: 0, predecessor: '19FS' }
        ]
    }
}
];
export var projectResources = [
    { resourceId: 1, resourceName: 'Project Manager' },
    { resourceId: 2, resourceName: 'Software Analyst' },
    { resourceId: 3, resourceName: 'Developer' },
    { resourceId: 4, resourceName: 'Testing Engineer' }
];
export var pagingdata = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
100, priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
100, approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
100, priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'), endDate: new Date('02/07/2017'), duration: 0, progress:
0, priority: 'Low', approved: true }
        ]
    }
]

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    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
60, priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
100, priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2,
progress: 100, approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
100, approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'), endDate: new Date('02/14/2017'), duration: 0, progress:
0, priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          duration: 11,
          subtasks: [
            { taskID: 15, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
            { taskID: 16, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', priority: 'Normal', approved: true },
          ]
        }
      ]
    }
  ]
}

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        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'), endDate: new Date('02/27/2017'),
duration: 2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete', startDate:
new Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    subtasks: [
        { taskID: 23, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'), endDate: new Date('02/24/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'), endDate: new Date('02/26/2017'), duration: 2, progress:
'0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'), endDate: new Date('02/28/2017'),
duration: 2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete', startDate:
new Date('02/28/2017'), endDate: new Date('02/28/2017'), duration: 0,
priority: 'Normal', approved: false }
    ]
},
{
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    subtasks: [
        { taskID: 31, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
    ]
}

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        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'), endDate: new Date('02/27/2017'),
duration: 2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete', startDate:
new Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0,
priority: 'Critical', approved: false }
    ]
}
]
];
export var textWrapData = [
    {
        taskID: 1,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Software Specification', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
60, priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
100, priority: 'Critical', approved: false },
            { taskID: 4, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2,
progress: 100, approved: true },
            { taskID: 5, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
100, approved: true },
            { taskID: 6, taskName: 'Design complete', startDate: new
Date('02/14/2017'), endDate: new Date('02/14/2017'), duration: 0, progress:
0, priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 7,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        subtasks: [
            {
                taskID: 8,
                taskName: 'Phase 1',

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        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        subtasks: [{
            taskID: 9,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            approved: false,
            subtasks: [
                { taskID: 10, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'), endDate: new Date('02/19/2017'),
duration: 3, progress: '50', priority: 'High', approved: false },
                { taskID: 11, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'), endDate: new Date('02/19/2017'),
duration: 3, progress: '50', priority: 'Low', approved: true },
                { taskID: 12, taskName: 'Testing', startDate:
new Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                { taskID: 13, taskName: 'Bug fix', startDate:
new Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                { taskID: 14, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'), endDate: new
Date('02/27/2017'), duration: 2, progress: '0', priority: 'High', approved:
false },
                { taskID: 15, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'), endDate: new Date('02/27/2017'),
duration: 0, priority: 'Low', approved: true }
            ]
        }]
    },
    {
        taskID: 16,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        subtasks: [{
            taskID: 17,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            subtasks: [
                { taskID: 18, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'), endDate: new Date('02/20/2017'),
duration: 4, progress: '50', priority: 'Normal', approved: true },
            ]
        }]
    }
]

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        { taskID: 19, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'), endDate: new Date('02/20/2017'),
duration: 4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 20, taskName: 'Testing', startDate:
new Date('02/21/2017'), endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 21, taskName: 'Bug fix', startDate:
new Date('02/25/2017'), endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 22, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'), endDate: new
Date('02/28/2017'), duration: 2, progress: '0', priority: 'Critical',
approved: true },
        { taskID: 23, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'), endDate: new Date('02/28/2017'),
duration: 0, priority: 'Normal', approved: false }
    ]
  },
  {
    taskID: 24,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    subtasks: [{
      taskID: 25,
      taskName: 'Implementation Module 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'High',
      approved: false,
      duration: 11,
      subtasks: [
        { taskID: 26, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'), endDate: new Date('02/19/2017'),
duration: 3, progress: '50', priority: 'Low', approved: true },
        { taskID: 27, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'), endDate: new Date('02/19/2017'),
duration: 3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 28, taskName: 'Testing', startDate:
new Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 29, taskName: 'Bug fix', startDate:
new Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 30, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'), endDate: new
Date('02/27/2017'), duration: 2, progress: '0', priority: 'Normal',
approved: true },
        { taskID: 31, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'), endDate: new Date('02/27/2017'),
duration: 0, priority: 'Critical', approved: false },
      ]
    }]
  }
]

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    }
  ]
}
];

```

DATASOURCE.TSX

```

{% raw %}
/**
 *Sample data
 */
export let virtualData: Object[] = [];
export function dataSource(): void {
  let parent: number = -1;
  let parentId: number = null;
  let names: string[] = ['VINET', 'TOMSP', 'HANAR', 'VICTE', 'SUPRD',
'HANAR', 'CHOPS', 'RICSU', 'WELLI', 'HILAA', 'ERNSH', 'CENTC',
'OTTIK', 'QUEDE', 'RATTC', 'ERNSH', 'FOLKO', 'BLONP', 'WARTH', 'FRANK',
'GROSR', 'WHITC', 'WARTH', 'SPLIR', 'RATTC', 'QUICK', 'VINET',
'MAGAA', 'TORTU', 'MORGK', 'BERGS', 'LEHMS', 'BERGS', 'ROMEY', 'ROMEY',
'LILAS', 'LEHMS', 'QUICK', 'QUICK', 'RICAR', 'REGGC', 'BSBEV',
'COMMI', 'QUEDE', 'TRADH', 'TORTU', 'RATTC', 'VINET', 'LILAS', 'BLONP',
'HUNGO', 'RICAR', 'MAGAA', 'WANDK', 'SUPRD', 'GODOS', 'TORTU',
'OLDWO', 'ROMEY', 'LONEP', 'ANATR', 'HUNGO', 'THEBI', 'DUMON', 'WANDK',
'QUICK', 'RATTC', 'ISLAT', 'RATTC', 'LONEP', 'ISLAT', 'TORTU',
'WARTH', 'ISLAT', 'PERIC', 'KOENE', 'SAVEA', 'KOENE', 'BOLID', 'FOLKO',
'FURIB', 'SPLIR', 'LILAS', 'BONAP', 'MEREP', 'WARTH', 'VICTE',
'HUNGO', 'PRINI', 'FRANK', 'OLDWO', 'MEREP', 'BONAP', 'SIMOB', 'FRANK',
'LEHMS', 'WHITC', 'QUICK', 'RATTC', 'FAMIA'];
  for (let i: number = 0; i < 10000; i++) {
    if (i % 5 === 0) {
      parent = i;
    }
    if (i % 5 !== 0) {
      let crew: string = 'Crew';
      let num: number = isNaN((virtualData.length % parent) - 1) ? 0
: (virtualData.length % parent) - 1;
      virtualData[num][crew].push({
        'TaskID': i + 1,
        'FIELD1': names[Math.floor(Math.random() * names.length)],
        'FIELD2': 1967 + (i % 10),
        'FIELD3': Math.floor(Math.random() * 200),
        'FIELD4': Math.floor(Math.random() * 100),
        'FIELD5': Math.floor(Math.random() * 2000),
        'FIELD6': Math.floor(Math.random() * 1000),
        'FIELD7': Math.floor(Math.random() * 100),
        'FIELD8': Math.floor(Math.random() * 10),
        'FIELD9': Math.floor(Math.random() * 10),
        'FIELD10': Math.floor(Math.random() * 100),
        'FIELD11': Math.floor(Math.random() * 100),
        'FIELD12': Math.floor(Math.random() * 1000),
        'FIELD13': Math.floor(Math.random() * 10),
        'FIELD14': Math.floor(Math.random() * 10),
        'FIELD15': Math.floor(Math.random() * 1000),
        'FIELD16': Math.floor(Math.random() * 200),
        'FIELD17': Math.floor(Math.random() * 300),

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        'FIELD18': Math.floor(Math.random() * 400),
        'FIELD19': Math.floor(Math.random() * 500),
        'FIELD20': Math.floor(Math.random() * 700),
        'FIELD21': Math.floor(Math.random() * 800),
        'FIELD22': Math.floor(Math.random() * 1000),
        'FIELD23': Math.floor(Math.random() * 2000),
        'FIELD24': Math.floor(Math.random() * 150),
        'FIELD25': Math.floor(Math.random() * 1000),
        'FIELD26': Math.floor(Math.random() * 100),
        'FIELD27': Math.floor(Math.random() * 400),
        'FIELD28': Math.floor(Math.random() * 600),
        'FIELD29': Math.floor(Math.random() * 500),
        'FIELD30': Math.floor(Math.random() * 300),
    });
} else {
    virtualData.push({
        'TaskID': i + 1,
        'Crew': [],
        'FIELD1': names[Math.floor(Math.random() * names.length)],
        'FIELD2': 1967 + (i % 10),
        'FIELD3': Math.floor(Math.random() * 200),
        'FIELD4': Math.floor(Math.random() * 100),
        'FIELD5': Math.floor(Math.random() * 2000),
        'FIELD6': Math.floor(Math.random() * 1000),
        'FIELD7': Math.floor(Math.random() * 100),
        'FIELD8': Math.floor(Math.random() * 10),
        'FIELD9': Math.floor(Math.random() * 10),
        'FIELD10': Math.floor(Math.random() * 100),
        'FIELD11': Math.floor(Math.random() * 100),
        'FIELD12': Math.floor(Math.random() * 1000),
        'FIELD13': Math.floor(Math.random() * 10),
        'FIELD14': Math.floor(Math.random() * 10),
        'FIELD15': Math.floor(Math.random() * 1000),
        'FIELD16': Math.floor(Math.random() * 200),
        'FIELD17': Math.floor(Math.random() * 300),
        'FIELD18': Math.floor(Math.random() * 400),
        'FIELD19': Math.floor(Math.random() * 500),
        'FIELD20': Math.floor(Math.random() * 700),
        'FIELD21': Math.floor(Math.random() * 800),
        'FIELD22': Math.floor(Math.random() * 1000),
        'FIELD23': Math.floor(Math.random() * 2000),
        'FIELD24': Math.floor(Math.random() * 150),
        'FIELD25': Math.floor(Math.random() * 1000),
        'FIELD26': Math.floor(Math.random() * 100),
        'FIELD27': Math.floor(Math.random() * 400),
        'FIELD28': Math.floor(Math.random() * 600),
        'FIELD29': Math.floor(Math.random() * 500),
        'FIELD30': Math.floor(Math.random() * 300),
    });
}
}
let stringData: string = JSON.stringify([
    {
        'OrderID': 10248,
        'CustomerID': 'VINET',
        'OrderDate': '1996-07-04T00:00:00.000Z',
    }
]);

```

```

      'ShippedDate': '1996-07-16T00:00:00.000Z',
      'Freight': 32.38,
      'ShipName': 'Vins et alcools Chevalier',
      'ShipAddress': '59 rue de l\'Abbaye',
      'ShipCity': 'Reims',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10249,
      'CustomerID': 'TOMSP',
      'OrderDate': '1996-07-05T00:00:00.000Z',
      'ShippedDate': '1996-07-10T00:00:00.000Z',
      'Freight': 11.61,
      'ShipName': 'Toms Spezialitäten',
      'ShipAddress': 'Luisenstr. 48',
      'ShipCity': 'Münster',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10250,
      'CustomerID': 'HANAR',
      'OrderDate': '1996-07-08T00:00:00.000Z',
      'ShippedDate': '1996-07-12T00:00:00.000Z',
      'Freight': 65.83,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10251,
      'CustomerID': 'VICTE',
      'OrderDate': '1996-07-08T00:00:00.000Z',
      'ShippedDate': '1996-07-15T00:00:00.000Z',
      'Freight': 41.34,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10252,
      'CustomerID': 'SUPRD',
      'OrderDate': '1996-07-09T00:00:00.000Z',
      'ShippedDate': '1996-07-11T00:00:00.000Z',
      'Freight': 51.3,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    }
  ],
  {

```

```

    'OrderID': 10253,
    'CustomerID': 'HANAR',
    'OrderDate': '1996-07-10T00:00:00.000Z',
    'ShippedDate': '1996-07-16T00:00:00.000Z',
    'Freight': 58.17,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10254,
    'CustomerID': 'CHOPS',
    'OrderDate': '1996-07-11T00:00:00.000Z',
    'ShippedDate': '1996-07-23T00:00:00.000Z',
    'Freight': 22.98,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10255,
    'CustomerID': 'RICSU',
    'OrderDate': '1996-07-12T00:00:00.000Z',
    'ShippedDate': '1996-07-15T00:00:00.000Z',
    'Freight': 148.33,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10256,
    'CustomerID': 'WELLI',
    'OrderDate': '1996-07-15T00:00:00.000Z',
    'ShippedDate': '1996-07-17T00:00:00.000Z',
    'Freight': 13.97,
    'ShipName': 'Wellington Importadora',
    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10257,
    'CustomerID': 'HILAA',
    'OrderDate': '1996-07-16T00:00:00.000Z',
    'ShippedDate': '1996-07-22T00:00:00.000Z',
    'Freight': 81.91,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
  }

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    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10258,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-07-17T00:00:00.000Z',
    'ShippedDate': '1996-07-23T00:00:00.000Z',
    'Freight': 140.51,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10259,
    'CustomerID': 'CENTC',
    'OrderDate': '1996-07-18T00:00:00.000Z',
    'ShippedDate': '1996-07-25T00:00:00.000Z',
    'Freight': 3.25,
    'ShipName': 'Centro comercial Moctezuma',
    'ShipAddress': 'Sierras de Granada 9993',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10260,
    'CustomerID': 'OTTIK',
    'OrderDate': '1996-07-19T00:00:00.000Z',
    'ShippedDate': '1996-07-29T00:00:00.000Z',
    'Freight': 55.09,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10261,
    'CustomerID': 'QUEDE',
    'OrderDate': '1996-07-19T00:00:00.000Z',
    'ShippedDate': '1996-07-30T00:00:00.000Z',
    'Freight': 3.05,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10262,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-07-22T00:00:00.000Z',
    'ShippedDate': '1996-07-25T00:00:00.000Z',
    'Freight': 48.29,
    'ShipName': 'Rattlesnake Canyon Grocery',

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      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10263,
      'CustomerID': 'ERNSH',
      'OrderDate': '1996-07-23T00:00:00.000Z',
      'ShippedDate': '1996-07-31T00:00:00.000Z',
      'Freight': 146.06,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10264,
      'CustomerID': 'FOLKO',
      'OrderDate': '1996-07-24T00:00:00.000Z',
      'ShippedDate': '1996-08-23T00:00:00.000Z',
      'Freight': 3.67,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10265,
      'CustomerID': 'BLONP',
      'OrderDate': '1996-07-25T00:00:00.000Z',
      'ShippedDate': '1996-08-12T00:00:00.000Z',
      'Freight': 55.28,
      'ShipName': 'Blondel père et fils',
      'ShipAddress': '24, place Kléber',
      'ShipCity': 'Strasbourg',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10266,
      'CustomerID': 'WARTH',
      'OrderDate': '1996-07-26T00:00:00.000Z',
      'ShippedDate': '1996-07-31T00:00:00.000Z',
      'Freight': 25.73,
      'ShipName': 'Wartian Herkku',
      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10267,
      'CustomerID': 'FRANK',
      'OrderDate': '1996-07-29T00:00:00.000Z',

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    'ShippedDate': '1996-08-06T00:00:00.000Z',
    'Freight': 208.58,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10268,
    'CustomerID': 'GROSR',
    'OrderDate': '1996-07-30T00:00:00.000Z',
    'ShippedDate': '1996-08-02T00:00:00.000Z',
    'Freight': 66.29,
    'ShipName': 'GROSELLA-Restaurante',
    'ShipAddress': '5a Ave. Los Palos Grandes',
    'ShipCity': 'Caracas',
    'ShipRegion': 'DF',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10269,
    'CustomerID': 'WHITC',
    'OrderDate': '1996-07-31T00:00:00.000Z',
    'ShippedDate': '1996-08-09T00:00:00.000Z',
    'Freight': 4.56,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10270,
    'CustomerID': 'WARTH',
    'OrderDate': '1996-08-01T00:00:00.000Z',
    'ShippedDate': '1996-08-02T00:00:00.000Z',
    'Freight': 136.54,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10271,
    'CustomerID': 'SPLIR',
    'OrderDate': '1996-08-01T00:00:00.000Z',
    'ShippedDate': '1996-08-30T00:00:00.000Z',
    'Freight': 4.54,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  }
]

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    'OrderID': 10272,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-08-02T00:00:00.000Z',
    'ShippedDate': '1996-08-06T00:00:00.000Z',
    'Freight': 98.03,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10273,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-08-05T00:00:00.000Z',
    'ShippedDate': '1996-08-12T00:00:00.000Z',
    'Freight': 76.07,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10274,
    'CustomerID': 'VINET',
    'OrderDate': '1996-08-06T00:00:00.000Z',
    'ShippedDate': '1996-08-16T00:00:00.000Z',
    'Freight': 6.01,
    'ShipName': 'Vins et alcools Chevalier',
    'ShipAddress': '59 rue de l\'Abbaye',
    'ShipCity': 'Reims',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10275,
    'CustomerID': 'MAGAA',
    'OrderDate': '1996-08-07T00:00:00.000Z',
    'ShippedDate': '1996-08-09T00:00:00.000Z',
    'Freight': 26.93,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10276,
    'CustomerID': 'TORTU',
    'OrderDate': '1996-08-08T00:00:00.000Z',
    'ShippedDate': '1996-08-14T00:00:00.000Z',
    'Freight': 13.84,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,

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    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10277,
    'CustomerID': 'MORGK',
    'OrderDate': '1996-08-09T00:00:00.000Z',
    'ShippedDate': '1996-08-13T00:00:00.000Z',
    'Freight': 125.77,
    'ShipName': 'Morgenstern Gesundkost',
    'ShipAddress': 'Heerstr. 22',
    'ShipCity': 'Leipzig',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10278,
    'CustomerID': 'BERGS',
    'OrderDate': '1996-08-12T00:00:00.000Z',
    'ShippedDate': '1996-08-16T00:00:00.000Z',
    'Freight': 92.69,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10279,
    'CustomerID': 'LEHMS',
    'OrderDate': '1996-08-13T00:00:00.000Z',
    'ShippedDate': '1996-08-16T00:00:00.000Z',
    'Freight': 25.83,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10280,
    'CustomerID': 'BERGS',
    'OrderDate': '1996-08-14T00:00:00.000Z',
    'ShippedDate': '1996-09-12T00:00:00.000Z',
    'Freight': 8.98,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10281,
    'CustomerID': 'ROMEY',
    'OrderDate': '1996-08-14T00:00:00.000Z',
    'ShippedDate': '1996-08-21T00:00:00.000Z',
    'Freight': 2.94,
    'ShipName': 'Romero y tomillo',

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      'ShipAddress': 'Gran Vía, 1',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10282,
      'CustomerID': 'ROMEY',
      'OrderDate': '1996-08-15T00:00:00.000Z',
      'ShippedDate': '1996-08-21T00:00:00.000Z',
      'Freight': 12.69,
      'ShipName': 'Romero y tomillo',
      'ShipAddress': 'Gran Vía, 1',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10283,
      'CustomerID': 'LILAS',
      'OrderDate': '1996-08-16T00:00:00.000Z',
      'ShippedDate': '1996-08-23T00:00:00.000Z',
      'Freight': 84.81,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10284,
      'CustomerID': 'LEHMS',
      'OrderDate': '1996-08-19T00:00:00.000Z',
      'ShippedDate': '1996-08-27T00:00:00.000Z',
      'Freight': 76.56,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10285,
      'CustomerID': 'QUICK',
      'OrderDate': '1996-08-20T00:00:00.000Z',
      'ShippedDate': '1996-08-26T00:00:00.000Z',
      'Freight': 76.83,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10286,
      'CustomerID': 'QUICK',
      'OrderDate': '1996-08-21T00:00:00.000Z',

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    'ShippedDate': '1996-08-30T00:00:00.000Z',
    'Freight': 229.24,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10287,
    'CustomerID': 'RICAR',
    'OrderDate': '1996-08-22T00:00:00.000Z',
    'ShippedDate': '1996-08-28T00:00:00.000Z',
    'Freight': 12.76,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10288,
    'CustomerID': 'REGGC',
    'OrderDate': '1996-08-23T00:00:00.000Z',
    'ShippedDate': '1996-09-03T00:00:00.000Z',
    'Freight': 7.45,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10289,
    'CustomerID': 'BSBEV',
    'OrderDate': '1996-08-26T00:00:00.000Z',
    'ShippedDate': '1996-08-28T00:00:00.000Z',
    'Freight': 22.77,
    'ShipName': 'B\ Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10290,
    'CustomerID': 'COMMI',
    'OrderDate': '1996-08-27T00:00:00.000Z',
    'ShippedDate': '1996-09-03T00:00:00.000Z',
    'Freight': 79.7,
    'ShipName': 'Comércio Mineiro',
    'ShipAddress': 'Av. dos Lusíadas, 23',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {

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    'OrderID': 10291,
    'CustomerID': 'QUEDE',
    'OrderDate': '1996-08-27T00:00:00.000Z',
    'ShippedDate': '1996-09-04T00:00:00.000Z',
    'Freight': 6.4,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10292,
    'CustomerID': 'TRADH',
    'OrderDate': '1996-08-28T00:00:00.000Z',
    'ShippedDate': '1996-09-02T00:00:00.000Z',
    'Freight': 1.35,
    'ShipName': 'Tradição Hipermercados',
    'ShipAddress': 'Av. Inês de Castro, 414',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10293,
    'CustomerID': 'TORTU',
    'OrderDate': '1996-08-29T00:00:00.000Z',
    'ShippedDate': '1996-09-11T00:00:00.000Z',
    'Freight': 21.18,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10294,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-08-30T00:00:00.000Z',
    'ShippedDate': '1996-09-05T00:00:00.000Z',
    'Freight': 147.26,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10295,
    'CustomerID': 'VINET',
    'OrderDate': '1996-09-02T00:00:00.000Z',
    'ShippedDate': '1996-09-10T00:00:00.000Z',
    'Freight': 1.15,
    'ShipName': 'Vins et alcools Chevalier',
    'ShipAddress': '59 rue de l\'Abbaye',
    'ShipCity': 'Reims',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
  {
    'OrderID': 10296,
    'CustomerID': 'LILAS',
    'OrderDate': '1996-09-03T00:00:00.000Z',
    'ShippedDate': '1996-09-11T00:00:00.000Z',
    'Freight': 0.12,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10297,
    'CustomerID': 'BLONP',
    'OrderDate': '1996-09-04T00:00:00.000Z',
    'ShippedDate': '1996-09-10T00:00:00.000Z',
    'Freight': 5.74,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10298,
    'CustomerID': 'HUNGO',
    'OrderDate': '1996-09-05T00:00:00.000Z',
    'ShippedDate': '1996-09-11T00:00:00.000Z',
    'Freight': 168.22,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10299,
    'CustomerID': 'RICAR',
    'OrderDate': '1996-09-06T00:00:00.000Z',
    'ShippedDate': '1996-09-13T00:00:00.000Z',
    'Freight': 29.76,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10300,
    'CustomerID': 'MAGAA',
    'OrderDate': '1996-09-09T00:00:00.000Z',
    'ShippedDate': '1996-09-18T00:00:00.000Z',
    'Freight': 17.68,
    'ShipName': 'Magazzini Alimentari Riuniti',

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      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 10301,
      'CustomerID': 'WANDK',
      'OrderDate': '1996-09-09T00:00:00.000Z',
      'ShippedDate': '1996-09-17T00:00:00.000Z',
      'Freight': 45.08,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10302,
      'CustomerID': 'SUPRD',
      'OrderDate': '1996-09-10T00:00:00.000Z',
      'ShippedDate': '1996-10-09T00:00:00.000Z',
      'Freight': 6.27,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
      'OrderID': 10303,
      'CustomerID': 'GODOS',
      'OrderDate': '1996-09-11T00:00:00.000Z',
      'ShippedDate': '1996-09-18T00:00:00.000Z',
      'Freight': 107.83,
      'ShipName': 'Godos Cocina Típica',
      'ShipAddress': 'C/ Romero, 33',
      'ShipCity': 'Sevilla',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10304,
      'CustomerID': 'TORTU',
      'OrderDate': '1996-09-12T00:00:00.000Z',
      'ShippedDate': '1996-09-17T00:00:00.000Z',
      'Freight': 63.79,
      'ShipName': 'Tortuga Restaurante',
      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10305,
      'CustomerID': 'OLDWO',
      'OrderDate': '1996-09-13T00:00:00.000Z',

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    'ShippedDate': '1996-10-09T00:00:00.000Z',
    'Freight': 257.62,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10306,
    'CustomerID': 'ROMEY',
    'OrderDate': '1996-09-16T00:00:00.000Z',
    'ShippedDate': '1996-09-23T00:00:00.000Z',
    'Freight': 7.56,
    'ShipName': 'Romero y tomillo',
    'ShipAddress': 'Gran Vía, 1',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10307,
    'CustomerID': 'LONEP',
    'OrderDate': '1996-09-17T00:00:00.000Z',
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    'Freight': 0.56,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10308,
    'CustomerID': 'ANATR',
    'OrderDate': '1996-09-18T00:00:00.000Z',
    'ShippedDate': '1996-09-24T00:00:00.000Z',
    'Freight': 1.61,
    'ShipName': 'Ana Trujillo Emparedados y helados',
    'ShipAddress': 'Avda. de la Constitución 2222',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10309,
    'CustomerID': 'HUNGO',
    'OrderDate': '1996-09-19T00:00:00.000Z',
    'ShippedDate': '1996-10-23T00:00:00.000Z',
    'Freight': 47.3,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {

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    'OrderID': 10310,
    'CustomerID': 'THEBI',
    'OrderDate': '1996-09-20T00:00:00.000Z',
    'ShippedDate': '1996-09-27T00:00:00.000Z',
    'Freight': 17.52,
    'ShipName': 'The Big Cheese',
    'ShipAddress': '89 Jefferson Way Suite 2',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10311,
    'CustomerID': 'DUMON',
    'OrderDate': '1996-09-20T00:00:00.000Z',
    'ShippedDate': '1996-09-26T00:00:00.000Z',
    'Freight': 24.69,
    'ShipName': 'Du monde entier',
    'ShipAddress': '67, rue des Cinquante Otages',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10312,
    'CustomerID': 'WANDK',
    'OrderDate': '1996-09-23T00:00:00.000Z',
    'ShippedDate': '1996-10-03T00:00:00.000Z',
    'Freight': 40.26,
    'ShipName': 'Die Wandernde Kuh',
    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10313,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-09-24T00:00:00.000Z',
    'ShippedDate': '1996-10-04T00:00:00.000Z',
    'Freight': 1.96,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10314,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-09-25T00:00:00.000Z',
    'ShippedDate': '1996-10-04T00:00:00.000Z',
    'Freight': 74.16,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
  }

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    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10315,
    'CustomerID': 'ISLAT',
    'OrderDate': '1996-09-26T00:00:00.000Z',
    'ShippedDate': '1996-10-03T00:00:00.000Z',
    'Freight': 41.76,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10316,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-09-27T00:00:00.000Z',
    'ShippedDate': '1996-10-08T00:00:00.000Z',
    'Freight': 150.15,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10317,
    'CustomerID': 'LONEP',
    'OrderDate': '1996-09-30T00:00:00.000Z',
    'ShippedDate': '1996-10-10T00:00:00.000Z',
    'Freight': 12.69,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10318,
    'CustomerID': 'ISLAT',
    'OrderDate': '1996-10-01T00:00:00.000Z',
    'ShippedDate': '1996-10-04T00:00:00.000Z',
    'Freight': 4.73,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10319,
    'CustomerID': 'TORTU',
    'OrderDate': '1996-10-02T00:00:00.000Z',
    'ShippedDate': '1996-10-11T00:00:00.000Z',
    'Freight': 64.5,
    'ShipName': 'Tortuga Restaurante',

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      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10320,
      'CustomerID': 'WARTH',
      'OrderDate': '1996-10-03T00:00:00.000Z',
      'ShippedDate': '1996-10-18T00:00:00.000Z',
      'Freight': 34.57,
      'ShipName': 'Wartian Herkku',
      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10321,
      'CustomerID': 'ISLAT',
      'OrderDate': '1996-10-03T00:00:00.000Z',
      'ShippedDate': '1996-10-11T00:00:00.000Z',
      'Freight': 3.43,
      'ShipName': 'Island Trading',
      'ShipAddress': 'Garden House Crowther Way',
      'ShipCity': 'Cowes',
      'ShipRegion': 'Isle of Wight',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10322,
      'CustomerID': 'PERIC',
      'OrderDate': '1996-10-04T00:00:00.000Z',
      'ShippedDate': '1996-10-23T00:00:00.000Z',
      'Freight': 0.4,
      'ShipName': 'Pericles Comidas clásicas',
      'ShipAddress': 'Calle Dr. Jorge Cash 321',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10323,
      'CustomerID': 'KOENE',
      'OrderDate': '1996-10-07T00:00:00.000Z',
      'ShippedDate': '1996-10-14T00:00:00.000Z',
      'Freight': 4.88,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10324,
      'CustomerID': 'SAVEA',
      'OrderDate': '1996-10-08T00:00:00.000Z',

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    'ShippedDate': '1996-10-10T00:00:00.000Z',
    'Freight': 214.27,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10325,
    'CustomerID': 'KOENE',
    'OrderDate': '1996-10-09T00:00:00.000Z',
    'ShippedDate': '1996-10-14T00:00:00.000Z',
    'Freight': 64.86,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10326,
    'CustomerID': 'BOLID',
    'OrderDate': '1996-10-10T00:00:00.000Z',
    'ShippedDate': '1996-10-14T00:00:00.000Z',
    'Freight': 77.92,
    'ShipName': 'Bólido Comidas preparadas',
    'ShipAddress': 'C/ Araquil, 67',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10327,
    'CustomerID': 'FOLKO',
    'OrderDate': '1996-10-11T00:00:00.000Z',
    'ShippedDate': '1996-10-14T00:00:00.000Z',
    'Freight': 63.36,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10328,
    'CustomerID': 'FURIB',
    'OrderDate': '1996-10-14T00:00:00.000Z',
    'ShippedDate': '1996-10-17T00:00:00.000Z',
    'Freight': 87.03,
    'ShipName': 'Furia Bacalhau e Frutos do Mar',
    'ShipAddress': 'Jardim das rosas n. 32',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {

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    'OrderID': 10329,
    'CustomerID': 'SPLIR',
    'OrderDate': '1996-10-15T00:00:00.000Z',
    'ShippedDate': '1996-10-23T00:00:00.000Z',
    'Freight': 191.67,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10330,
    'CustomerID': 'LILAS',
    'OrderDate': '1996-10-16T00:00:00.000Z',
    'ShippedDate': '1996-10-28T00:00:00.000Z',
    'Freight': 12.75,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10331,
    'CustomerID': 'BONAP',
    'OrderDate': '1996-10-16T00:00:00.000Z',
    'ShippedDate': '1996-10-21T00:00:00.000Z',
    'Freight': 10.19,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10332,
    'CustomerID': 'MEREP',
    'OrderDate': '1996-10-17T00:00:00.000Z',
    'ShippedDate': '1996-10-21T00:00:00.000Z',
    'Freight': 52.84,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10333,
    'CustomerID': 'WARTH',
    'OrderDate': '1996-10-18T00:00:00.000Z',
    'ShippedDate': '1996-10-25T00:00:00.000Z',
    'Freight': 0.59,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,

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    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10334,
    'CustomerID': 'VICTE',
    'OrderDate': '1996-10-21T00:00:00.000Z',
    'ShippedDate': '1996-10-28T00:00:00.000Z',
    'Freight': 8.56,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10335,
    'CustomerID': 'HUNGO',
    'OrderDate': '1996-10-22T00:00:00.000Z',
    'ShippedDate': '1996-10-24T00:00:00.000Z',
    'Freight': 42.11,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10336,
    'CustomerID': 'PRINI',
    'OrderDate': '1996-10-23T00:00:00.000Z',
    'ShippedDate': '1996-10-25T00:00:00.000Z',
    'Freight': 15.51,
    'ShipName': 'Princesa Isabel Vinhos',
    'ShipAddress': 'Estrada da saúde n. 58',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10337,
    'CustomerID': 'FRANK',
    'OrderDate': '1996-10-24T00:00:00.000Z',
    'ShippedDate': '1996-10-29T00:00:00.000Z',
    'Freight': 108.26,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10338,
    'CustomerID': 'OLDWO',
    'OrderDate': '1996-10-25T00:00:00.000Z',
    'ShippedDate': '1996-10-29T00:00:00.000Z',
    'Freight': 84.21,
    'ShipName': 'Old World Delicatessen',

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    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10339,
    'CustomerID': 'MEREP',
    'OrderDate': '1996-10-28T00:00:00.000Z',
    'ShippedDate': '1996-11-04T00:00:00.000Z',
    'Freight': 15.66,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10340,
    'CustomerID': 'BONAP',
    'OrderDate': '1996-10-29T00:00:00.000Z',
    'ShippedDate': '1996-11-08T00:00:00.000Z',
    'Freight': 166.31,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10341,
    'CustomerID': 'SIMOB',
    'OrderDate': '1996-10-29T00:00:00.000Z',
    'ShippedDate': '1996-11-05T00:00:00.000Z',
    'Freight': 26.78,
    'ShipName': 'Simons bistro',
    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10342,
    'CustomerID': 'FRANK',
    'OrderDate': '1996-10-30T00:00:00.000Z',
    'ShippedDate': '1996-11-04T00:00:00.000Z',
    'Freight': 54.83,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10343,
    'CustomerID': 'LEHMS',
    'OrderDate': '1996-10-31T00:00:00.000Z',

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    'ShippedDate': '1996-11-06T00:00:00.000Z',
    'Freight': 110.37,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10344,
    'CustomerID': 'WHITC',
    'OrderDate': '1996-11-01T00:00:00.000Z',
    'ShippedDate': '1996-11-05T00:00:00.000Z',
    'Freight': 23.29,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10345,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-11-04T00:00:00.000Z',
    'ShippedDate': '1996-11-11T00:00:00.000Z',
    'Freight': 249.06,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10346,
    'CustomerID': 'RATTC',
    'OrderDate': '1996-11-05T00:00:00.000Z',
    'ShippedDate': '1996-11-08T00:00:00.000Z',
    'Freight': 142.08,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10347,
    'CustomerID': 'FAMIA',
    'OrderDate': '1996-11-06T00:00:00.000Z',
    'ShippedDate': '1996-11-08T00:00:00.000Z',
    'Freight': 3.1,
    'ShipName': 'Familia Arquibaldo',
    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {

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      'OrderID': 10348,
      'CustomerID': 'WANDK',
      'OrderDate': '1996-11-07T00:00:00.000Z',
      'ShippedDate': '1996-11-15T00:00:00.000Z',
      'Freight': 0.78,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10349,
      'CustomerID': 'SPLIR',
      'OrderDate': '1996-11-08T00:00:00.000Z',
      'ShippedDate': '1996-11-15T00:00:00.000Z',
      'Freight': 8.63,
      'ShipName': 'Split Rail Beer & Ale',
      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10350,
      'CustomerID': 'LAMAI',
      'OrderDate': '1996-11-11T00:00:00.000Z',
      'ShippedDate': '1996-12-03T00:00:00.000Z',
      'Freight': 64.19,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10351,
      'CustomerID': 'ERNSH',
      'OrderDate': '1996-11-11T00:00:00.000Z',
      'ShippedDate': '1996-11-20T00:00:00.000Z',
      'Freight': 162.33,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10352,
      'CustomerID': 'FURIB',
      'OrderDate': '1996-11-12T00:00:00.000Z',
      'ShippedDate': '1996-11-18T00:00:00.000Z',
      'Freight': 1.3,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',
      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,

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    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10353,
    'CustomerID': 'PICCO',
    'OrderDate': '1996-11-13T00:00:00.000Z',
    'ShippedDate': '1996-11-25T00:00:00.000Z',
    'Freight': 360.63,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10354,
    'CustomerID': 'PERIC',
    'OrderDate': '1996-11-14T00:00:00.000Z',
    'ShippedDate': '1996-11-20T00:00:00.000Z',
    'Freight': 53.8,
    'ShipName': 'Pericles Comidas clásicas',
    'ShipAddress': 'Calle Dr. Jorge Cash 321',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10355,
    'CustomerID': 'AROUT',
    'OrderDate': '1996-11-15T00:00:00.000Z',
    'ShippedDate': '1996-11-20T00:00:00.000Z',
    'Freight': 41.95,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10356,
    'CustomerID': 'WANDK',
    'OrderDate': '1996-11-18T00:00:00.000Z',
    'ShippedDate': '1996-11-27T00:00:00.000Z',
    'Freight': 36.71,
    'ShipName': 'Die Wandernde Kuh',
    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10357,
    'CustomerID': 'LILAS',
    'OrderDate': '1996-11-19T00:00:00.000Z',
    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 34.88,
    'ShipName': 'LILA-Supermercado',

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    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10358,
    'CustomerID': 'LAMAI',
    'OrderDate': '1996-11-20T00:00:00.000Z',
    'ShippedDate': '1996-11-27T00:00:00.000Z',
    'Freight': 19.64,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10359,
    'CustomerID': 'SEVES',
    'OrderDate': '1996-11-21T00:00:00.000Z',
    'ShippedDate': '1996-11-26T00:00:00.000Z',
    'Freight': 288.43,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10360,
    'CustomerID': 'BLONP',
    'OrderDate': '1996-11-22T00:00:00.000Z',
    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 131.7,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10361,
    'CustomerID': 'QUICK',
    'OrderDate': '1996-11-22T00:00:00.000Z',
    'ShippedDate': '1996-12-03T00:00:00.000Z',
    'Freight': 183.17,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10362,
    'CustomerID': 'BONAP',
    'OrderDate': '1996-11-25T00:00:00.000Z',

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    'ShippedDate': '1996-11-28T00:00:00.000Z',
    'Freight': 96.04,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10363,
    'CustomerID': 'DRACD',
    'OrderDate': '1996-11-26T00:00:00.000Z',
    'ShippedDate': '1996-12-04T00:00:00.000Z',
    'Freight': 30.54,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10364,
    'CustomerID': 'EASTC',
    'OrderDate': '1996-11-26T00:00:00.000Z',
    'ShippedDate': '1996-12-04T00:00:00.000Z',
    'Freight': 71.97,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10365,
    'CustomerID': 'ANTON',
    'OrderDate': '1996-11-27T00:00:00.000Z',
    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 22,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10366,
    'CustomerID': 'GALED',
    'OrderDate': '1996-11-28T00:00:00.000Z',
    'ShippedDate': '1996-12-30T00:00:00.000Z',
    'Freight': 10.14,
    'ShipName': 'Galería del gastronómo',
    'ShipAddress': 'Rambla de Cataluña, 23',
    'ShipCity': 'Barcelona',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
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    'OrderID': 10367,
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    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 13.55,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10368,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-11-29T00:00:00.000Z',
    'ShippedDate': '1996-12-02T00:00:00.000Z',
    'Freight': 101.95,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10369,
    'CustomerID': 'SPLIR',
    'OrderDate': '1996-12-02T00:00:00.000Z',
    'ShippedDate': '1996-12-09T00:00:00.000Z',
    'Freight': 195.68,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10370,
    'CustomerID': 'CHOPS',
    'OrderDate': '1996-12-03T00:00:00.000Z',
    'ShippedDate': '1996-12-27T00:00:00.000Z',
    'Freight': 1.17,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10371,
    'CustomerID': 'LAMAI',
    'OrderDate': '1996-12-03T00:00:00.000Z',
    'ShippedDate': '1996-12-24T00:00:00.000Z',
    'Freight': 0.45,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
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    'CustomerID': 'QUEEN',
    'OrderDate': '1996-12-04T00:00:00.000Z',
    'ShippedDate': '1996-12-09T00:00:00.000Z',
    'Freight': 890.78,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10373,
    'CustomerID': 'HUNGO',
    'OrderDate': '1996-12-05T00:00:00.000Z',
    'ShippedDate': '1996-12-11T00:00:00.000Z',
    'Freight': 124.12,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10374,
    'CustomerID': 'WOLZA',
    'OrderDate': '1996-12-05T00:00:00.000Z',
    'ShippedDate': '1996-12-09T00:00:00.000Z',
    'Freight': 3.94,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 10375,
    'CustomerID': 'HUNGC',
    'OrderDate': '1996-12-06T00:00:00.000Z',
    'ShippedDate': '1996-12-09T00:00:00.000Z',
    'Freight': 20.12,
    'ShipName': 'Hungry Coyote Import Store',
    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10376,
    'CustomerID': 'MEREP',
    'OrderDate': '1996-12-09T00:00:00.000Z',
    'ShippedDate': '1996-12-13T00:00:00.000Z',
    'Freight': 20.39,
    'ShipName': 'Mère Paillarde',

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      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10377,
      'CustomerID': 'SEVES',
      'OrderDate': '1996-12-09T00:00:00.000Z',
      'ShippedDate': '1996-12-13T00:00:00.000Z',
      'Freight': 22.21,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10378,
      'CustomerID': 'FOLKO',
      'OrderDate': '1996-12-10T00:00:00.000Z',
      'ShippedDate': '1996-12-19T00:00:00.000Z',
      'Freight': 5.44,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10379,
      'CustomerID': 'QUEDE',
      'OrderDate': '1996-12-11T00:00:00.000Z',
      'ShippedDate': '1996-12-13T00:00:00.000Z',
      'Freight': 45.03,
      'ShipName': 'Que Delícia',
      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10380,
      'CustomerID': 'HUNGO',
      'OrderDate': '1996-12-12T00:00:00.000Z',
      'ShippedDate': '1997-01-16T00:00:00.000Z',
      'Freight': 35.03,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
      'OrderID': 10381,
      'CustomerID': 'LILAS',
      'OrderDate': '1996-12-12T00:00:00.000Z',

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    'ShippedDate': '1996-12-13T00:00:00.000Z',
    'Freight': 7.99,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10382,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-12-13T00:00:00.000Z',
    'ShippedDate': '1996-12-16T00:00:00.000Z',
    'Freight': 94.77,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10383,
    'CustomerID': 'AROUT',
    'OrderDate': '1996-12-16T00:00:00.000Z',
    'ShippedDate': '1996-12-18T00:00:00.000Z',
    'Freight': 34.24,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10384,
    'CustomerID': 'BERGS',
    'OrderDate': '1996-12-16T00:00:00.000Z',
    'ShippedDate': '1996-12-20T00:00:00.000Z',
    'Freight': 168.64,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10385,
    'CustomerID': 'SPLIR',
    'OrderDate': '1996-12-17T00:00:00.000Z',
    'ShippedDate': '1996-12-23T00:00:00.000Z',
    'Freight': 30.96,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {

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    'OrderID': 10386,
    'CustomerID': 'FAMIA',
    'OrderDate': '1996-12-18T00:00:00.000Z',
    'ShippedDate': '1996-12-25T00:00:00.000Z',
    'Freight': 13.99,
    'ShipName': 'Familia Arquibaldo',
    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10387,
    'CustomerID': 'SANTG',
    'OrderDate': '1996-12-18T00:00:00.000Z',
    'ShippedDate': '1996-12-20T00:00:00.000Z',
    'Freight': 93.63,
    'ShipName': 'Santé Gourmet',
    'ShipAddress': 'Erling Skakkes gate 78',
    'ShipCity': 'Stavern',
    'ShipRegion': null,
    'ShipCountry': 'Norway'
  },
  {
    'OrderID': 10388,
    'CustomerID': 'SEVES',
    'OrderDate': '1996-12-19T00:00:00.000Z',
    'ShippedDate': '1996-12-20T00:00:00.000Z',
    'Freight': 34.86,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10389,
    'CustomerID': 'BOTTM',
    'OrderDate': '1996-12-20T00:00:00.000Z',
    'ShippedDate': '1996-12-24T00:00:00.000Z',
    'Freight': 47.42,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10390,
    'CustomerID': 'ERNSH',
    'OrderDate': '1996-12-23T00:00:00.000Z',
    'ShippedDate': '1996-12-26T00:00:00.000Z',
    'Freight': 126.38,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,

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    'ShipCountry': 'Austria'
  },
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    'CustomerID': 'DRACD',
    'OrderDate': '1996-12-23T00:00:00.000Z',
    'ShippedDate': '1996-12-31T00:00:00.000Z',
    'Freight': 5.45,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10392,
    'CustomerID': 'PICCO',
    'OrderDate': '1996-12-24T00:00:00.000Z',
    'ShippedDate': '1997-01-01T00:00:00.000Z',
    'Freight': 122.46,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10393,
    'CustomerID': 'SAVEA',
    'OrderDate': '1996-12-25T00:00:00.000Z',
    'ShippedDate': '1997-01-03T00:00:00.000Z',
    'Freight': 126.56,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10394,
    'CustomerID': 'HUNGC',
    'OrderDate': '1996-12-25T00:00:00.000Z',
    'ShippedDate': '1997-01-03T00:00:00.000Z',
    'Freight': 30.34,
    'ShipName': 'Hungry Coyote Import Store',
    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10395,
    'CustomerID': 'HILAA',
    'OrderDate': '1996-12-26T00:00:00.000Z',
    'ShippedDate': '1997-01-03T00:00:00.000Z',
    'Freight': 184.41,
    'ShipName': 'HILARION-Abastos',

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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10396,
    'CustomerID': 'FRANK',
    'OrderDate': '1996-12-27T00:00:00.000Z',
    'ShippedDate': '1997-01-06T00:00:00.000Z',
    'Freight': 135.35,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10397,
    'CustomerID': 'PRINI',
    'OrderDate': '1996-12-27T00:00:00.000Z',
    'ShippedDate': '1997-01-02T00:00:00.000Z',
    'Freight': 60.26,
    'ShipName': 'Princesa Isabel Vinhos',
    'ShipAddress': 'Estrada da saúde n. 58',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
    'OrderID': 10398,
    'CustomerID': 'SAVEA',
    'OrderDate': '1996-12-30T00:00:00.000Z',
    'ShippedDate': '1997-01-09T00:00:00.000Z',
    'Freight': 89.16,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10399,
    'CustomerID': 'VAFFE',
    'OrderDate': '1996-12-31T00:00:00.000Z',
    'ShippedDate': '1997-01-08T00:00:00.000Z',
    'Freight': 27.36,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10400,
    'CustomerID': 'EASTC',
    'OrderDate': '1997-01-01T00:00:00.000Z',

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    'ShippedDate': '1997-01-16T00:00:00.000Z',
    'Freight': 83.93,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10401,
    'CustomerID': 'RATTC',
    'OrderDate': '1997-01-01T00:00:00.000Z',
    'ShippedDate': '1997-01-10T00:00:00.000Z',
    'Freight': 12.51,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10402,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-01-02T00:00:00.000Z',
    'ShippedDate': '1997-01-10T00:00:00.000Z',
    'Freight': 67.88,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10403,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-01-03T00:00:00.000Z',
    'ShippedDate': '1997-01-09T00:00:00.000Z',
    'Freight': 73.79,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10404,
    'CustomerID': 'MAGAA',
    'OrderDate': '1997-01-03T00:00:00.000Z',
    'ShippedDate': '1997-01-08T00:00:00.000Z',
    'Freight': 155.97,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {

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    'OrderID': 10405,
    'CustomerID': 'LINOD',
    'OrderDate': '1997-01-06T00:00:00.000Z',
    'ShippedDate': '1997-01-22T00:00:00.000Z',
    'Freight': 34.82,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10406,
    'CustomerID': 'QUEEN',
    'OrderDate': '1997-01-07T00:00:00.000Z',
    'ShippedDate': '1997-01-13T00:00:00.000Z',
    'Freight': 108.04,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10407,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-01-07T00:00:00.000Z',
    'ShippedDate': '1997-01-30T00:00:00.000Z',
    'Freight': 91.48,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10408,
    'CustomerID': 'FOLIG',
    'OrderDate': '1997-01-08T00:00:00.000Z',
    'ShippedDate': '1997-01-14T00:00:00.000Z',
    'Freight': 11.26,
    'ShipName': 'Folies gourmandes',
    'ShipAddress': '184, chaussée de Tournai',
    'ShipCity': 'Lille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10409,
    'CustomerID': 'OCEAN',
    'OrderDate': '1997-01-09T00:00:00.000Z',
    'ShippedDate': '1997-01-14T00:00:00.000Z',
    'Freight': 29.83,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,

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    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10410,
    'CustomerID': 'BOTTM',
    'OrderDate': '1997-01-10T00:00:00.000Z',
    'ShippedDate': '1997-01-15T00:00:00.000Z',
    'Freight': 2.4,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
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    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
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    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
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    'CustomerID': 'WARTH',
    'OrderDate': '1997-01-13T00:00:00.000Z',
    'ShippedDate': '1997-01-15T00:00:00.000Z',
    'Freight': 3.77,
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    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
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    'OrderDate': '1997-01-14T00:00:00.000Z',
    'ShippedDate': '1997-01-16T00:00:00.000Z',
    'Freight': 95.66,
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    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'FAMIA',
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    'Freight': 21.48,
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    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
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    'ShippedDate': '1997-01-24T00:00:00.000Z',
    'Freight': 0.2,
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    'ShipAddress': 'City Center Plaza 516 Main St.',
    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
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    'Freight': 22.72,
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    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
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    'CustomerID': 'SIMOB',
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    'Freight': 70.29,
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    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
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    'CustomerID': 'QUICK',
    'OrderDate': '1997-01-17T00:00:00.000Z',
    'ShippedDate': '1997-01-24T00:00:00.000Z',
    'Freight': 17.55,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
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    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
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    'ShippedDate': '1997-01-27T00:00:00.000Z',
    'Freight': 44.12,
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    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'QUEDE',
    'OrderDate': '1997-01-21T00:00:00.000Z',
    'ShippedDate': '1997-01-27T00:00:00.000Z',
    'Freight': 99.23,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10422,
    'CustomerID': 'FRANS',
    'OrderDate': '1997-01-22T00:00:00.000Z',
    'ShippedDate': '1997-01-31T00:00:00.000Z',
    'Freight': 3.02,
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    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
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    'CustomerID': 'GOURL',
    'OrderDate': '1997-01-23T00:00:00.000Z',
    'ShippedDate': '1997-02-24T00:00:00.000Z',
    'Freight': 24.5,
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    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  }
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    'Freight': 370.61,
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    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'LAMAI',
    'OrderDate': '1997-01-24T00:00:00.000Z',
    'ShippedDate': '1997-02-14T00:00:00.000Z',
    'Freight': 7.93,
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    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'GALED',
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    'ShippedDate': '1997-02-06T00:00:00.000Z',
    'Freight': 18.69,
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    'ShipAddress': 'Rambla de Cataluña, 23',
    'ShipCity': 'Barcelona',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
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    'CustomerID': 'PICCO',
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    'Freight': 31.29,
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    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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    'CustomerID': 'REGGC',
    'OrderDate': '1997-01-28T00:00:00.000Z',
    'ShippedDate': '1997-02-04T00:00:00.000Z',
    'Freight': 11.09,
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    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,

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    'ShipCountry': 'Italy'
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    'OrderDate': '1997-01-29T00:00:00.000Z',
    'ShippedDate': '1997-02-07T00:00:00.000Z',
    'Freight': 56.63,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
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    'OrderDate': '1997-01-30T00:00:00.000Z',
    'ShippedDate': '1997-02-03T00:00:00.000Z',
    'Freight': 458.78,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
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    'OrderDate': '1997-01-30T00:00:00.000Z',
    'ShippedDate': '1997-02-07T00:00:00.000Z',
    'Freight': 44.17,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'SPLIR',
    'OrderDate': '1997-01-31T00:00:00.000Z',
    'ShippedDate': '1997-02-07T00:00:00.000Z',
    'Freight': 4.34,
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    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'PRINI',
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    'Freight': 73.83,
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      'Freight': 17.92,
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      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'Freight': 9.21,
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      'ShipAddress': 'Berkeley Gardens 12 Brewery',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'BLONP',
      'OrderDate': '1997-02-05T00:00:00.000Z',
      'ShippedDate': '1997-02-11T00:00:00.000Z',
      'Freight': 156.66,
      'ShipName': 'Blondel père et fils',
      'ShipAddress': '24, place Kléber',
      'ShipCity': 'Strasbourg',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'WARTH',
      'OrderDate': '1997-02-05T00:00:00.000Z',
      'ShippedDate': '1997-02-12T00:00:00.000Z',
      'Freight': 19.97,
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      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
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      'CustomerID': 'TOMSP',
      'OrderDate': '1997-02-06T00:00:00.000Z',

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      'ShippedDate': '1997-02-14T00:00:00.000Z',
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      'ShipCity': 'Münster',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'OrderDate': '1997-02-07T00:00:00.000Z',
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      'Freight': 4.07,
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      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
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      'CustomerID': 'SAVEA',
      'OrderDate': '1997-02-10T00:00:00.000Z',
      'ShippedDate': '1997-02-28T00:00:00.000Z',
      'Freight': 86.53,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'OLDWO',
      'OrderDate': '1997-02-10T00:00:00.000Z',
      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 73.02,
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      'ShipAddress': '2743 Bering St.',
      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',
      'ShipCountry': 'USA'
    },
    {
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      'ShippedDate': '1997-02-18T00:00:00.000Z',
      'Freight': 47.94,
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      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    }
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      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
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      'CustomerID': 'BERGS',
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      'ShippedDate': '1997-02-21T00:00:00.000Z',
      'Freight': 3.5,
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      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'BERGS',
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      'ShippedDate': '1997-02-20T00:00:00.000Z',
      'Freight': 9.3,
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      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'TOMSP',
      'OrderDate': '1997-02-14T00:00:00.000Z',
      'ShippedDate': '1997-02-19T00:00:00.000Z',
      'Freight': 14.68,
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      'ShipAddress': 'Luisenstr. 48',
      'ShipCity': 'Münster',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'RICAR',
      'OrderDate': '1997-02-14T00:00:00.000Z',
      'ShippedDate': '1997-03-07T00:00:00.000Z',
      'Freight': 68.66,
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      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',

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    'CustomerID': 'RANCH',
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    'ShippedDate': '1997-02-24T00:00:00.000Z',
    'Freight': 38.82,
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    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
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    'CustomerID': 'BLONP',
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    'ShippedDate': '1997-02-27T00:00:00.000Z',
    'Freight': 53.3,
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    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'VICTE',
    'OrderDate': '1997-02-19T00:00:00.000Z',
    'ShippedDate': '1997-03-11T00:00:00.000Z',
    'Freight': 7.23,
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    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10451,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-02-19T00:00:00.000Z',
    'ShippedDate': '1997-03-12T00:00:00.000Z',
    'Freight': 189.09,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10452,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-02-20T00:00:00.000Z',
    'ShippedDate': '1997-02-26T00:00:00.000Z',
    'Freight': 140.26,
    'ShipName': 'Save-a-lot Markets',

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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'AROUT',
      'OrderDate': '1997-02-21T00:00:00.000Z',
      'ShippedDate': '1997-02-26T00:00:00.000Z',
      'Freight': 25.36,
      'ShipName': 'Around the Horn',
      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10454,
      'CustomerID': 'LAMAI',
      'OrderDate': '1997-02-21T00:00:00.000Z',
      'ShippedDate': '1997-02-25T00:00:00.000Z',
      'Freight': 2.74,
      'ShipName': 'La maison d\'Asie',
      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10455,
      'CustomerID': 'WARTH',
      'OrderDate': '1997-02-24T00:00:00.000Z',
      'ShippedDate': '1997-03-03T00:00:00.000Z',
      'Freight': 180.45,
      'ShipName': 'Wartian Herkku',
      'ShipAddress': 'Torikatu 38',
      'ShipCity': 'Oulu',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10456,
      'CustomerID': 'KOENE',
      'OrderDate': '1997-02-25T00:00:00.000Z',
      'ShippedDate': '1997-02-28T00:00:00.000Z',
      'Freight': 8.12,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10457,
      'CustomerID': 'KOENE',
      'OrderDate': '1997-02-25T00:00:00.000Z',

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    'ShippedDate': '1997-03-03T00:00:00.000Z',
    'Freight': 11.57,
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    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10458,
    'CustomerID': 'SUPRD',
    'OrderDate': '1997-02-26T00:00:00.000Z',
    'ShippedDate': '1997-03-04T00:00:00.000Z',
    'Freight': 147.06,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 10459,
    'CustomerID': 'VICTE',
    'OrderDate': '1997-02-27T00:00:00.000Z',
    'ShippedDate': '1997-02-28T00:00:00.000Z',
    'Freight': 25.09,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10460,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-02-28T00:00:00.000Z',
    'ShippedDate': '1997-03-03T00:00:00.000Z',
    'Freight': 16.27,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10461,
    'CustomerID': 'LILAS',
    'OrderDate': '1997-02-28T00:00:00.000Z',
    'ShippedDate': '1997-03-05T00:00:00.000Z',
    'Freight': 148.61,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
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    'OrderID': 10462,
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    'OrderDate': '1997-03-03T00:00:00.000Z',
    'ShippedDate': '1997-03-18T00:00:00.000Z',
    'Freight': 6.17,
    'ShipName': 'Consolidated Holdings',
    'ShipAddress': 'Berkeley Gardens 12 Brewery',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
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    'ShipCountry': 'Belgium'
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    'Freight': 89,
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    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
  {
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    'Freight': 145.04,
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    'ShipCity': 'Århus',
    'ShipRegion': null,
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    'Freight': 11.93,
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    'ShipAddress': 'Av. dos Lusíadas, 23',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
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      'Freight': 4.93,
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      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
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      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'WHITC',
      'OrderDate': '1997-03-10T00:00:00.000Z',
      'ShippedDate': '1997-03-14T00:00:00.000Z',
      'Freight': 60.18,
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      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
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      'OrderDate': '1997-03-11T00:00:00.000Z',
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      'Freight': 64.56,
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      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'CustomerID': 'BSBEV',
      'OrderDate': '1997-03-11T00:00:00.000Z',
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      'ShipRegion': null,
      'ShipCountry': 'UK'
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      'Freight': 4.2,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
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      'CustomerID': 'ISLAT',
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      'Freight': 16.37,
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      'ShipAddress': 'Garden House Crowther Way',
      'ShipCity': 'Cowes',
      'ShipRegion': 'Isle of Wight',
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'PERIC',
      'OrderDate': '1997-03-13T00:00:00.000Z',
      'ShippedDate': '1997-03-21T00:00:00.000Z',
      'Freight': 83.49,
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      'ShipAddress': 'Calle Dr. Jorge Cash 321',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
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      'OrderDate': '1997-03-14T00:00:00.000Z',
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      'Freight': 68.52,
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      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
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      'CustomerID': 'HILAA',
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      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
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      'ShipAddress': 'Estrada da saúde n. 58',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
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      'CustomerID': 'VICTE',
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      'ShippedDate': '1997-03-26T00:00:00.000Z',
      'Freight': 4.81,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10479,
      'CustomerID': 'RATTC',
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      'ShippedDate': '1997-03-21T00:00:00.000Z',
      'Freight': 708.95,
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      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
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      'CustomerID': 'FOLIG',
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      'Freight': 1.35,
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      'ShipAddress': '184, chaussée de Tournai',
      'ShipCity': 'Lille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    }
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      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
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      'ShipAddress': '12 Orchestra Terrace',
      'ShipCity': 'Walla Walla',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'WHITC',
      'OrderDate': '1997-03-24T00:00:00.000Z',
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      'Freight': 15.28,
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      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'BSBEV',
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      'Freight': 6.88,
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      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'LINOD',
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      'Freight': 64.45,
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      'ShipCity': 'I. de Margarita',
      'ShipRegion': 'Nueva Esparta',

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    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'OrderDate': '1997-03-26T00:00:00.000Z',
    'ShippedDate': '1997-03-28T00:00:00.000Z',
    'Freight': 71.07,
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    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'CustomerID': 'FRANK',
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    'ShippedDate': '1997-04-02T00:00:00.000Z',
    'Freight': 4.93,
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    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'PICCO',
    'OrderDate': '1997-03-28T00:00:00.000Z',
    'ShippedDate': '1997-04-09T00:00:00.000Z',
    'Freight': 5.29,
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    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
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    'CustomerID': 'HILAA',
    'OrderDate': '1997-03-31T00:00:00.000Z',
    'ShippedDate': '1997-04-03T00:00:00.000Z',
    'Freight': 210.19,
    'ShipName': 'HILARION-Abastos',

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      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
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      'ShipCountry': 'Venezuela'
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      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
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      'CustomerID': 'BOTTM',
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      'ShippedDate': '1997-04-11T00:00:00.000Z',
      'Freight': 62.89,
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      'ShipAddress': '23 Tsawassen Blvd.',
      'ShipCity': 'Tsawassen',
      'ShipRegion': 'BC',
      'ShipCountry': 'Canada'
    },
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      'CustomerID': 'LAMAI',
      'OrderDate': '1997-04-02T00:00:00.000Z',
      'ShippedDate': '1997-04-10T00:00:00.000Z',
      'Freight': 10.64,
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      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'CustomerID': 'COMMI',
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      'ShipAddress': 'Av. dos Lusíadas, 23',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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    'ShipAddress': '2319 Elm St.',
    'ShipCity': 'Vancouver',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
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    'CustomerID': 'TRADH',
    'OrderDate': '1997-04-04T00:00:00.000Z',
    'ShippedDate': '1997-04-07T00:00:00.000Z',
    'Freight': 46.77,
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    'ShipAddress': 'Av. Inês de Castro, 414',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'ShippedDate': '1997-04-07T00:00:00.000Z',
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    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'HILAA',
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    'Freight': 29.75,
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'LILAS',
    'OrderDate': '1997-04-08T00:00:00.000Z',
    'ShippedDate': '1997-04-16T00:00:00.000Z',
    'Freight': 102.02,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
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      'OrderDate': '1997-04-09T00:00:00.000Z',
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      'Freight': 42.68,
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      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'CustomerID': 'BLAUS',
      'OrderDate': '1997-04-09T00:00:00.000Z',
      'ShippedDate': '1997-04-16T00:00:00.000Z',
      'Freight': 8.85,
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      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10502,
      'CustomerID': 'PERIC',
      'OrderDate': '1997-04-10T00:00:00.000Z',
      'ShippedDate': '1997-04-29T00:00:00.000Z',
      'Freight': 69.32,
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      'ShipAddress': 'Calle Dr. Jorge Cash 321',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
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      'CustomerID': 'HUNGO',
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      'ShippedDate': '1997-04-16T00:00:00.000Z',
      'Freight': 16.74,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
      'OrderID': 10504,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-04-11T00:00:00.000Z',
      'ShippedDate': '1997-04-18T00:00:00.000Z',
      'Freight': 59.13,
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      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',

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      'ShipCountry': 'USA'
    },
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      'CustomerID': 'MEREP',
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      'ShippedDate': '1997-04-21T00:00:00.000Z',
      'Freight': 7.13,
      'ShipName': 'Mère Paillarde',
      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
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      'CustomerID': 'KOENE',
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      'Freight': 21.19,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10507,
      'CustomerID': 'ANTON',
      'OrderDate': '1997-04-15T00:00:00.000Z',
      'ShippedDate': '1997-04-22T00:00:00.000Z',
      'Freight': 47.45,
      'ShipName': 'Antonio Moreno Taquería',
      'ShipAddress': 'Mataderos 2312',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
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      'CustomerID': 'OTTIK',
      'OrderDate': '1997-04-16T00:00:00.000Z',
      'ShippedDate': '1997-05-13T00:00:00.000Z',
      'Freight': 4.99,
      'ShipName': 'Ottilies Käseladen',
      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'BLAUS',
      'OrderDate': '1997-04-17T00:00:00.000Z',
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      'Freight': 0.15,
      'ShipName': 'Blauer See Delikatessen',

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      'ShipRegion': null,
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      'CustomerID': 'SAVEA',
      'OrderDate': '1997-04-18T00:00:00.000Z',
      'ShippedDate': '1997-04-28T00:00:00.000Z',
      'Freight': 367.63,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10511,
      'CustomerID': 'BONAP',
      'OrderDate': '1997-04-18T00:00:00.000Z',
      'ShippedDate': '1997-04-21T00:00:00.000Z',
      'Freight': 350.64,
      'ShipName': 'Bon app',
      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10512,
      'CustomerID': 'FAMIA',
      'OrderDate': '1997-04-21T00:00:00.000Z',
      'ShippedDate': '1997-04-24T00:00:00.000Z',
      'Freight': 3.53,
      'ShipName': 'Familia Arquibaldo',
      'ShipAddress': 'Rua Orós, 92',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10513,
      'CustomerID': 'WANDK',
      'OrderDate': '1997-04-22T00:00:00.000Z',
      'ShippedDate': '1997-04-28T00:00:00.000Z',
      'Freight': 105.65,
      'ShipName': 'Die Wandernde Kuh',
      'ShipAddress': 'Adenauerallee 900',
      'ShipCity': 'Stuttgart',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10514,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-04-22T00:00:00.000Z',

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      'ShippedDate': '1997-05-16T00:00:00.000Z',
      'Freight': 789.95,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10515,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-04-23T00:00:00.000Z',
      'ShippedDate': '1997-05-23T00:00:00.000Z',
      'Freight': 204.47,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10516,
      'CustomerID': 'HUNGO',
      'OrderDate': '1997-04-24T00:00:00.000Z',
      'ShippedDate': '1997-05-01T00:00:00.000Z',
      'Freight': 62.78,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
      'OrderID': 10517,
      'CustomerID': 'NORTS',
      'OrderDate': '1997-04-24T00:00:00.000Z',
      'ShippedDate': '1997-04-29T00:00:00.000Z',
      'Freight': 32.07,
      'ShipName': 'North/South',
      'ShipAddress': 'South House 300 Queensbridge',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10518,
      'CustomerID': 'TORTU',
      'OrderDate': '1997-04-25T00:00:00.000Z',
      'ShippedDate': '1997-05-05T00:00:00.000Z',
      'Freight': 218.15,
      'ShipName': 'Tortuga Restaurante',
      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    }
  ],
  {

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      'OrderID': 10519,
      'CustomerID': 'CHOPS',
      'OrderDate': '1997-04-28T00:00:00.000Z',
      'ShippedDate': '1997-05-01T00:00:00.000Z',
      'Freight': 91.76,
      'ShipName': 'Chop-suey Chinese',
      'ShipAddress': 'Hauptstr. 31',
      'ShipCity': 'Bern',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10520,
      'CustomerID': 'SANTG',
      'OrderDate': '1997-04-29T00:00:00.000Z',
      'ShippedDate': '1997-05-01T00:00:00.000Z',
      'Freight': 13.37,
      'ShipName': 'Santé Gourmet',
      'ShipAddress': 'Erling Skakkes gate 78',
      'ShipCity': 'Stavern',
      'ShipRegion': null,
      'ShipCountry': 'Norway'
    },
    {
      'OrderID': 10521,
      'CustomerID': 'CACTU',
      'OrderDate': '1997-04-29T00:00:00.000Z',
      'ShippedDate': '1997-05-02T00:00:00.000Z',
      'Freight': 17.22,
      'ShipName': 'Cactus Comidas para llevar',
      'ShipAddress': 'Cerrito 333',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
    {
      'OrderID': 10522,
      'CustomerID': 'LEHMS',
      'OrderDate': '1997-04-30T00:00:00.000Z',
      'ShippedDate': '1997-05-06T00:00:00.000Z',
      'Freight': 45.33,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10523,
      'CustomerID': 'SEVES',
      'OrderDate': '1997-05-01T00:00:00.000Z',
      'ShippedDate': '1997-05-30T00:00:00.000Z',
      'Freight': 77.63,
      'ShipName': 'Seven Seas Imports',
      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,

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    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10524,
    'CustomerID': 'BERGS',
    'OrderDate': '1997-05-01T00:00:00.000Z',
    'ShippedDate': '1997-05-07T00:00:00.000Z',
    'Freight': 244.79,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10525,
    'CustomerID': 'BONAP',
    'OrderDate': '1997-05-02T00:00:00.000Z',
    'ShippedDate': '1997-05-23T00:00:00.000Z',
    'Freight': 11.06,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10526,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-05-05T00:00:00.000Z',
    'ShippedDate': '1997-05-15T00:00:00.000Z',
    'Freight': 58.59,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10527,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-05-05T00:00:00.000Z',
    'ShippedDate': '1997-05-07T00:00:00.000Z',
    'Freight': 41.9,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10528,
    'CustomerID': 'GREAL',
    'OrderDate': '1997-05-06T00:00:00.000Z',
    'ShippedDate': '1997-05-09T00:00:00.000Z',
    'Freight': 3.35,
    'ShipName': 'Great Lakes Food Market',

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      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10529,
      'CustomerID': 'MAISD',
      'OrderDate': '1997-05-07T00:00:00.000Z',
      'ShippedDate': '1997-05-09T00:00:00.000Z',
      'Freight': 66.69,
      'ShipName': 'Maison Dewey',
      'ShipAddress': 'Rue Joseph-Bens 532',
      'ShipCity': 'Bruxelles',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
      'OrderID': 10530,
      'CustomerID': 'PICCO',
      'OrderDate': '1997-05-08T00:00:00.000Z',
      'ShippedDate': '1997-05-12T00:00:00.000Z',
      'Freight': 339.22,
      'ShipName': 'Piccolo und mehr',
      'ShipAddress': 'Geislweg 14',
      'ShipCity': 'Salzburg',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10531,
      'CustomerID': 'OCEAN',
      'OrderDate': '1997-05-08T00:00:00.000Z',
      'ShippedDate': '1997-05-19T00:00:00.000Z',
      'Freight': 8.12,
      'ShipName': 'Océano Atlántico Ltda.',
      'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
    {
      'OrderID': 10532,
      'CustomerID': 'EASTC',
      'OrderDate': '1997-05-09T00:00:00.000Z',
      'ShippedDate': '1997-05-12T00:00:00.000Z',
      'Freight': 74.46,
      'ShipName': 'Eastern Connection',
      'ShipAddress': '35 King George',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10533,
      'CustomerID': 'FOLKO',
      'OrderDate': '1997-05-12T00:00:00.000Z',

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    'ShippedDate': '1997-05-22T00:00:00.000Z',
    'Freight': 188.04,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10534,
    'CustomerID': 'LEHMS',
    'OrderDate': '1997-05-12T00:00:00.000Z',
    'ShippedDate': '1997-05-14T00:00:00.000Z',
    'Freight': 27.94,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10535,
    'CustomerID': 'ANTON',
    'OrderDate': '1997-05-13T00:00:00.000Z',
    'ShippedDate': '1997-05-21T00:00:00.000Z',
    'Freight': 15.64,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10536,
    'CustomerID': 'LEHMS',
    'OrderDate': '1997-05-14T00:00:00.000Z',
    'ShippedDate': '1997-06-06T00:00:00.000Z',
    'Freight': 58.88,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10537,
    'CustomerID': 'RICSU',
    'OrderDate': '1997-05-14T00:00:00.000Z',
    'ShippedDate': '1997-05-19T00:00:00.000Z',
    'Freight': 78.85,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {

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    'OrderID': 10538,
    'CustomerID': 'BSBEV',
    'OrderDate': '1997-05-15T00:00:00.000Z',
    'ShippedDate': '1997-05-16T00:00:00.000Z',
    'Freight': 4.87,
    'ShipName': 'B\ ' Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10539,
    'CustomerID': 'BSBEV',
    'OrderDate': '1997-05-16T00:00:00.000Z',
    'ShippedDate': '1997-05-23T00:00:00.000Z',
    'Freight': 12.36,
    'ShipName': 'B\ ' Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10540,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-05-19T00:00:00.000Z',
    'ShippedDate': '1997-06-13T00:00:00.000Z',
    'Freight': 1007.64,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10541,
    'CustomerID': 'HANAR',
    'OrderDate': '1997-05-19T00:00:00.000Z',
    'ShippedDate': '1997-05-29T00:00:00.000Z',
    'Freight': 68.65,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10542,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-05-20T00:00:00.000Z',
    'ShippedDate': '1997-05-26T00:00:00.000Z',
    'Freight': 10.95,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,

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    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10543,
    'CustomerID': 'LILAS',
    'OrderDate': '1997-05-21T00:00:00.000Z',
    'ShippedDate': '1997-05-23T00:00:00.000Z',
    'Freight': 48.17,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10544,
    'CustomerID': 'LONEP',
    'OrderDate': '1997-05-21T00:00:00.000Z',
    'ShippedDate': '1997-05-30T00:00:00.000Z',
    'Freight': 24.91,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10545,
    'CustomerID': 'LAZYK',
    'OrderDate': '1997-05-22T00:00:00.000Z',
    'ShippedDate': '1997-06-26T00:00:00.000Z',
    'Freight': 11.92,
    'ShipName': 'Lazy K Kountry Store',
    'ShipAddress': '12 Orchestra Terrace',
    'ShipCity': 'Walla Walla',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10546,
    'CustomerID': 'VICTE',
    'OrderDate': '1997-05-23T00:00:00.000Z',
    'ShippedDate': '1997-05-27T00:00:00.000Z',
    'Freight': 194.72,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10547,
    'CustomerID': 'SEVES',
    'OrderDate': '1997-05-23T00:00:00.000Z',
    'ShippedDate': '1997-06-02T00:00:00.000Z',
    'Freight': 178.43,
    'ShipName': 'Seven Seas Imports',

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      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10548,
      'CustomerID': 'TOMSP',
      'OrderDate': '1997-05-26T00:00:00.000Z',
      'ShippedDate': '1997-06-02T00:00:00.000Z',
      'Freight': 1.43,
      'ShipName': 'Toms Spezialitäten',
      'ShipAddress': 'Luisenstr. 48',
      'ShipCity': 'Münster',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10549,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-05-27T00:00:00.000Z',
      'ShippedDate': '1997-05-30T00:00:00.000Z',
      'Freight': 171.24,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10550,
      'CustomerID': 'GODOS',
      'OrderDate': '1997-05-28T00:00:00.000Z',
      'ShippedDate': '1997-06-06T00:00:00.000Z',
      'Freight': 4.32,
      'ShipName': 'Godos Cocina Típica',
      'ShipAddress': 'C/ Romero, 33',
      'ShipCity': 'Sevilla',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10551,
      'CustomerID': 'FURIB',
      'OrderDate': '1997-05-28T00:00:00.000Z',
      'ShippedDate': '1997-06-06T00:00:00.000Z',
      'Freight': 72.95,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',
      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
    {
      'OrderID': 10552,
      'CustomerID': 'HILAA',
      'OrderDate': '1997-05-29T00:00:00.000Z',

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    'ShippedDate': '1997-06-05T00:00:00.000Z',
    'Freight': 83.22,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10553,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-05-30T00:00:00.000Z',
    'ShippedDate': '1997-06-03T00:00:00.000Z',
    'Freight': 149.49,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10554,
    'CustomerID': 'OTTIK',
    'OrderDate': '1997-05-30T00:00:00.000Z',
    'ShippedDate': '1997-06-05T00:00:00.000Z',
    'Freight': 120.97,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10555,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-06-02T00:00:00.000Z',
    'ShippedDate': '1997-06-04T00:00:00.000Z',
    'Freight': 252.49,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10556,
    'CustomerID': 'SIMOB',
    'OrderDate': '1997-06-03T00:00:00.000Z',
    'ShippedDate': '1997-06-13T00:00:00.000Z',
    'Freight': 9.8,
    'ShipName': 'Simons bistro',
    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {

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      'OrderID': 10557,
      'CustomerID': 'LEHMS',
      'OrderDate': '1997-06-03T00:00:00.000Z',
      'ShippedDate': '1997-06-06T00:00:00.000Z',
      'Freight': 96.72,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10558,
      'CustomerID': 'AROUT',
      'OrderDate': '1997-06-04T00:00:00.000Z',
      'ShippedDate': '1997-06-10T00:00:00.000Z',
      'Freight': 72.97,
      'ShipName': 'Around the Horn',
      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10559,
      'CustomerID': 'BLONP',
      'OrderDate': '1997-06-05T00:00:00.000Z',
      'ShippedDate': '1997-06-13T00:00:00.000Z',
      'Freight': 8.05,
      'ShipName': 'Blondel père et fils',
      'ShipAddress': '24, place Kléber',
      'ShipCity': 'Strasbourg',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10560,
      'CustomerID': 'FRANK',
      'OrderDate': '1997-06-06T00:00:00.000Z',
      'ShippedDate': '1997-06-09T00:00:00.000Z',
      'Freight': 36.65,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10561,
      'CustomerID': 'FOLKO',
      'OrderDate': '1997-06-06T00:00:00.000Z',
      'ShippedDate': '1997-06-09T00:00:00.000Z',
      'Freight': 242.21,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,

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    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10562,
    'CustomerID': 'REGGC',
    'OrderDate': '1997-06-09T00:00:00.000Z',
    'ShippedDate': '1997-06-12T00:00:00.000Z',
    'Freight': 22.95,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10563,
    'CustomerID': 'RICAR',
    'OrderDate': '1997-06-10T00:00:00.000Z',
    'ShippedDate': '1997-06-24T00:00:00.000Z',
    'Freight': 60.43,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10564,
    'CustomerID': 'RATTC',
    'OrderDate': '1997-06-10T00:00:00.000Z',
    'ShippedDate': '1997-06-16T00:00:00.000Z',
    'Freight': 13.75,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10565,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-06-11T00:00:00.000Z',
    'ShippedDate': '1997-06-18T00:00:00.000Z',
    'Freight': 7.15,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10566,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-06-12T00:00:00.000Z',
    'ShippedDate': '1997-06-18T00:00:00.000Z',
    'Freight': 88.4,
    'ShipName': 'Blondel père et fils',

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      'ShipAddress': '24, place Kléber',
      'ShipCity': 'Strasbourg',
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      'Freight': 33.97,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
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      'OrderDate': '1997-06-13T00:00:00.000Z',
      'ShippedDate': '1997-07-09T00:00:00.000Z',
      'Freight': 6.54,
      'ShipName': 'Galería del gastronómo',
      'ShipAddress': 'Rambla de Cataluña, 23',
      'ShipCity': 'Barcelona',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10569,
      'CustomerID': 'RATTC',
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      'ShippedDate': '1997-07-11T00:00:00.000Z',
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      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
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      'OrderID': 10570,
      'CustomerID': 'MEREP',
      'OrderDate': '1997-06-17T00:00:00.000Z',
      'ShippedDate': '1997-06-19T00:00:00.000Z',
      'Freight': 188.99,
      'ShipName': 'Mère Paillarde',
      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
      'OrderID': 10571,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-06-17T00:00:00.000Z',

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    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 26.06,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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    'CustomerID': 'BERGS',
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    'Freight': 116.43,
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    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
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    'CustomerID': 'ANTON',
    'OrderDate': '1997-06-19T00:00:00.000Z',
    'ShippedDate': '1997-06-20T00:00:00.000Z',
    'Freight': 84.84,
    'ShipName': 'Antonio Moreno Taquería',
    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
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    'CustomerID': 'TRAIH',
    'OrderDate': '1997-06-19T00:00:00.000Z',
    'ShippedDate': '1997-06-30T00:00:00.000Z',
    'Freight': 37.6,
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    'ShipAddress': '722 DaVinci Blvd.',
    'ShipCity': 'Kirkland',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10575,
    'CustomerID': 'MORGK',
    'OrderDate': '1997-06-20T00:00:00.000Z',
    'ShippedDate': '1997-06-30T00:00:00.000Z',
    'Freight': 127.34,
    'ShipName': 'Morgenstern Gesundkost',
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    'ShipCity': 'Leipzig',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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      'Freight': 18.56,
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      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
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      'CustomerID': 'TRAIH',
      'OrderDate': '1997-06-23T00:00:00.000Z',
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      'Freight': 25.41,
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      'ShipAddress': '722 DaVinci Blvd.',
      'ShipCity': 'Kirkland',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10578,
      'CustomerID': 'BSBEV',
      'OrderDate': '1997-06-24T00:00:00.000Z',
      'ShippedDate': '1997-07-25T00:00:00.000Z',
      'Freight': 29.6,
      'ShipName': 'B\ Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
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      'CustomerID': 'LETSS',
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      'ShippedDate': '1997-07-04T00:00:00.000Z',
      'Freight': 13.73,
      'ShipName': 'Let\ Stop N Shop',
      'ShipAddress': '87 Polk St. Suite 5',
      'ShipCity': 'San Francisco',
      'ShipRegion': 'CA',
      'ShipCountry': 'USA'
    },
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      'Freight': 75.89,
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      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,

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    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'CustomerID': 'BLAUS',
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    'ShippedDate': '1997-07-14T00:00:00.000Z',
    'Freight': 27.71,
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    'ShipAddress': 'Forsterstr. 57',
    'ShipCity': 'Mannheim',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'WARTH',
    'OrderDate': '1997-06-30T00:00:00.000Z',
    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 7.28,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
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    'OrderID': 10584,
    'CustomerID': 'BLONP',
    'OrderDate': '1997-06-30T00:00:00.000Z',
    'ShippedDate': '1997-07-04T00:00:00.000Z',
    'Freight': 59.14,
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    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'Freight': 13.41,
    'ShipName': 'Wellington Importadora',

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      'ShipCity': 'Resende',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
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      'Freight': 0.48,
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      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'CustomerID': 'QUEDE',
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      'Freight': 62.52,
      'ShipName': 'Que Delícia',
      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10588,
      'CustomerID': 'QUICK',
      'OrderDate': '1997-07-03T00:00:00.000Z',
      'ShippedDate': '1997-07-10T00:00:00.000Z',
      'Freight': 194.67,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'GREAL',
      'OrderDate': '1997-07-04T00:00:00.000Z',
      'ShippedDate': '1997-07-14T00:00:00.000Z',
      'Freight': 4.42,
      'ShipName': 'Great Lakes Food Market',
      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'MEREP',
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      'ShippedDate': '1997-07-14T00:00:00.000Z',
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      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
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      'CustomerID': 'VAFFE',
      'OrderDate': '1997-07-07T00:00:00.000Z',
      'ShippedDate': '1997-07-16T00:00:00.000Z',
      'Freight': 55.92,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
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      'CustomerID': 'LEHMS',
      'OrderDate': '1997-07-08T00:00:00.000Z',
      'ShippedDate': '1997-07-16T00:00:00.000Z',
      'Freight': 32.1,
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      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'LEHMS',
      'OrderDate': '1997-07-09T00:00:00.000Z',
      'ShippedDate': '1997-08-13T00:00:00.000Z',
      'Freight': 174.2,
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      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
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      'CustomerID': 'OLDWO',
      'OrderDate': '1997-07-09T00:00:00.000Z',
      'ShippedDate': '1997-07-16T00:00:00.000Z',
      'Freight': 5.24,
      'ShipName': 'Old World Delicatessen',
      'ShipAddress': '2743 Bering St.',
      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',
      'ShipCountry': 'USA'
    }
  ],
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      'Freight': 96.78,
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      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10596,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-07-11T00:00:00.000Z',
      'ShippedDate': '1997-08-12T00:00:00.000Z',
      'Freight': 16.34,
      'ShipName': 'White Clover Markets',
      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
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      'CustomerID': 'PICCO',
      'OrderDate': '1997-07-11T00:00:00.000Z',
      'ShippedDate': '1997-07-18T00:00:00.000Z',
      'Freight': 35.12,
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      'ShipAddress': 'Geislweg 14',
      'ShipCity': 'Salzburg',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
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      'OrderID': 10598,
      'CustomerID': 'RATTC',
      'OrderDate': '1997-07-14T00:00:00.000Z',
      'ShippedDate': '1997-07-18T00:00:00.000Z',
      'Freight': 44.42,
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      'ShipAddress': '2817 Milton Dr.',
      'ShipCity': 'Albuquerque',
      'ShipRegion': 'NM',
      'ShipCountry': 'USA'
    },
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      'CustomerID': 'BSBEV',
      'OrderDate': '1997-07-15T00:00:00.000Z',
      'ShippedDate': '1997-07-21T00:00:00.000Z',
      'Freight': 29.98,
      'ShipName': 'B Beverages',
      'ShipAddress': 'Fauntleroy Circus',
      'ShipCity': 'London',
      'ShipRegion': null,

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      'ShipCountry': 'UK'
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      'CustomerID': 'HUNGC',
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      'ShippedDate': '1997-07-21T00:00:00.000Z',
      'Freight': 45.13,
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      'ShipAddress': 'City Center Plaza 516 Main St.',
      'ShipCity': 'Elgin',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'HILAA',
      'OrderDate': '1997-07-16T00:00:00.000Z',
      'ShippedDate': '1997-07-22T00:00:00.000Z',
      'Freight': 58.3,
      'ShipName': 'HILARION-Abastos',
      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 10602,
      'CustomerID': 'VAFFE',
      'OrderDate': '1997-07-17T00:00:00.000Z',
      'ShippedDate': '1997-07-22T00:00:00.000Z',
      'Freight': 2.92,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
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      'CustomerID': 'SAVEA',
      'OrderDate': '1997-07-18T00:00:00.000Z',
      'ShippedDate': '1997-08-08T00:00:00.000Z',
      'Freight': 48.77,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'FURIB',
      'OrderDate': '1997-07-18T00:00:00.000Z',
      'ShippedDate': '1997-07-29T00:00:00.000Z',
      'Freight': 7.46,
      'ShipName': 'Furia Bacalhau e Frutos do Mar',

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      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
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      'CustomerID': 'MEREP',
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      'ShippedDate': '1997-07-29T00:00:00.000Z',
      'Freight': 379.13,
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      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
      'ShipCountry': 'Canada'
    },
    {
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      'CustomerID': 'TRADH',
      'OrderDate': '1997-07-22T00:00:00.000Z',
      'ShippedDate': '1997-07-31T00:00:00.000Z',
      'Freight': 79.4,
      'ShipName': 'Tradiçao Hipermercados',
      'ShipAddress': 'Av. Inês de Castro, 414',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10607,
      'CustomerID': 'SAVEA',
      'OrderDate': '1997-07-22T00:00:00.000Z',
      'ShippedDate': '1997-07-25T00:00:00.000Z',
      'Freight': 200.24,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'TOMSP',
      'OrderDate': '1997-07-23T00:00:00.000Z',
      'ShippedDate': '1997-08-01T00:00:00.000Z',
      'Freight': 27.79,
      'ShipName': 'Toms Spezialitäten',
      'ShipAddress': 'Luisenstr. 48',
      'ShipCity': 'Münster',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'OrderID': 10609,
      'CustomerID': 'DUMON',
      'OrderDate': '1997-07-24T00:00:00.000Z',

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    'ShippedDate': '1997-07-30T00:00:00.000Z',
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    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10610,
    'CustomerID': 'LAMAI',
    'OrderDate': '1997-07-25T00:00:00.000Z',
    'ShippedDate': '1997-08-06T00:00:00.000Z',
    'Freight': 26.78,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10611,
    'CustomerID': 'WOLZA',
    'OrderDate': '1997-07-25T00:00:00.000Z',
    'ShippedDate': '1997-08-01T00:00:00.000Z',
    'Freight': 80.65,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 10612,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-07-28T00:00:00.000Z',
    'ShippedDate': '1997-08-01T00:00:00.000Z',
    'Freight': 544.08,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'HILAA',
    'OrderDate': '1997-07-29T00:00:00.000Z',
    'ShippedDate': '1997-08-01T00:00:00.000Z',
    'Freight': 8.11,
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
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      'OrderDate': '1997-07-29T00:00:00.000Z',
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      'Freight': 1.93,
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      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10615,
      'CustomerID': 'WILMK',
      'OrderDate': '1997-07-30T00:00:00.000Z',
      'ShippedDate': '1997-08-06T00:00:00.000Z',
      'Freight': 0.75,
      'ShipName': 'Wilman Kala',
      'ShipAddress': 'Keskuskatu 45',
      'ShipCity': 'Helsinki',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 10616,
      'CustomerID': 'GREAL',
      'OrderDate': '1997-07-31T00:00:00.000Z',
      'ShippedDate': '1997-08-05T00:00:00.000Z',
      'Freight': 116.53,
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      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10617,
      'CustomerID': 'GREAL',
      'OrderDate': '1997-07-31T00:00:00.000Z',
      'ShippedDate': '1997-08-04T00:00:00.000Z',
      'Freight': 18.53,
      'ShipName': 'Great Lakes Food Market',
      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10618,
      'CustomerID': 'MEREPE',
      'OrderDate': '1997-08-01T00:00:00.000Z',
      'ShippedDate': '1997-08-08T00:00:00.000Z',
      'Freight': 154.68,
      'ShipName': 'Mère Paillarde',
      'ShipAddress': '43 rue St. Laurent',
      'ShipCity': 'Montréal',
      'ShipRegion': 'Québec',
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      'ShipCity': 'Vancouver',
      'ShipRegion': 'BC',
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      'ShipRegion': 'Isle of Wight',
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      'ShipCountry': 'Brazil'
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    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'BLONP',
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    'ShipCity': 'Bergamo',
    'ShipRegion': null,
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    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
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    'ShipRegion': 'SP',
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    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
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    'ShipCity': 'San Cristóbal',
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      'ShipCity': 'Resende',
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      'Freight': 12.41,
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      'ShipAddress': 'Rua do Paço, 67',
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      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
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      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
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      'ShipCountry': 'Brazil'
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      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
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      'Freight': 20.6,
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      'ShipAddress': 'Adenauerallee 900',
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      'ShipRegion': null,
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      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
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      'CustomerID': 'FRANK',
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      'Freight': 93.25,
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      'ShipCountry': 'Germany'
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      'Freight': 55.26,
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      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
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      'Freight': 4.41,
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      'ShipRegion': null,
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      'Freight': 57.15,
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      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
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    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
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    'ShipRegion': null,
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    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'ShippedDate': '1997-10-15T00:00:00.000Z',
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    'ShipCity': 'Elgin',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'HUNGO',
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    'ShippedDate': '1997-09-15T00:00:00.000Z',
    'Freight': 17.55,
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      'ShipRegion': 'Co. Cork',
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      'Freight': 1.28,
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      'ShipAddress': '89 Chiaroscuro Rd.',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
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      'Freight': 113.15,
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      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'Freight': 1.27,
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      'ShipAddress': 'Jardim das rosas n. 32',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
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      'OrderDate': '1997-09-11T00:00:00.000Z',
      'ShippedDate': '1997-09-17T00:00:00.000Z',
      'Freight': 26.31,
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      'ShipAddress': '89 Chiaroscuro Rd.',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
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      'CustomerID': 'RICSU',
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    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
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    'CustomerID': 'ERNSH',
    'OrderDate': '1997-09-12T00:00:00.000Z',
    'ShippedDate': '1997-09-19T00:00:00.000Z',
    'Freight': 78.09,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
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    'CustomerID': 'WANDK',
    'OrderDate': '1997-09-15T00:00:00.000Z',
    'ShippedDate': '1997-09-23T00:00:00.000Z',
    'Freight': 47.22,
    'ShipName': 'Die Wandernde Kuh',
    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'SIMOB',
    'OrderDate': '1997-09-15T00:00:00.000Z',
    'ShippedDate': '1997-09-22T00:00:00.000Z',
    'Freight': 24.39,
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    'ShipAddress': 'Vinbæltet 34',
    'ShipCity': 'Kobenhavn',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
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    'CustomerID': 'FRANK',
    'OrderDate': '1997-09-16T00:00:00.000Z',
    'ShippedDate': '1997-09-18T00:00:00.000Z',
    'Freight': 203.48,
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    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'Freight': 30.34,
    'ShipName': 'France restauration',
    'ShipAddress': '54, rue Royale',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10672,
    'CustomerID': 'BERGS',
    'OrderDate': '1997-09-17T00:00:00.000Z',
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    'Freight': 95.75,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
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    'OrderID': 10673,
    'CustomerID': 'WILMK',
    'OrderDate': '1997-09-18T00:00:00.000Z',
    'ShippedDate': '1997-09-19T00:00:00.000Z',
    'Freight': 22.76,
    'ShipName': 'Wilman Kala',
    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
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    'CustomerID': 'ISLAT',
    'OrderDate': '1997-09-18T00:00:00.000Z',
    'ShippedDate': '1997-09-30T00:00:00.000Z',
    'Freight': 0.9,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
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    'CustomerID': 'FRANK',
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    'ShipCity': 'México D.F.',
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    'Freight': 4.03,
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    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
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    'CustomerID': 'SAVEA',
    'OrderDate': '1997-09-23T00:00:00.000Z',
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'BLONP',
    'OrderDate': '1997-09-23T00:00:00.000Z',
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    'Freight': 27.94,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'Freight': 26.61,
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    'Freight': 76.13,
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    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
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    'ShipRegion': null,
    'ShipCountry': 'Mexico'
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    'OrderDate': '1997-09-26T00:00:00.000Z',
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    'ShipAddress': '67, rue des Cinquante Otages',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'OrderID': 10684,
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    'OrderDate': '1997-09-26T00:00:00.000Z',
    'ShippedDate': '1997-09-30T00:00:00.000Z',
    'Freight': 145.63,
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    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
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    'CustomerID': 'GOURL',
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      'ShipCountry': 'Brazil'
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      'Freight': 96.5,
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      'ShipAddress': 'Geislweg 14',
      'ShipCity': 'Salzburg',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
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      'Freight': 296.43,
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      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
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      'CustomerID': 'VAFFE',
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      'Freight': 299.09,
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      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
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      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    }
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    'Freight': 15.8,
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    'ShipAddress': 'Rua do Paço, 67',
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    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
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    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'Freight': 61.02,
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    'ShipAddress': 'Obere Str. 57',
    'ShipCity': 'Berlin',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'WHITC',
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    'Freight': 139.34,
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    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
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    'ShipRegion': null,

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    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
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    'Freight': 102.55,
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    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'LINOD',
    'OrderDate': '1997-10-08T00:00:00.000Z',
    'ShippedDate': '1997-10-14T00:00:00.000Z',
    'Freight': 45.52,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
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    'CustomerID': 'ERNSH',
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    'ShippedDate': '1997-10-17T00:00:00.000Z',
    'Freight': 272.47,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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      'Freight': 65.1,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
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      'CustomerID': 'ALFKI',
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      'Freight': 23.94,
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      'ShipAddress': 'Obere Str. 57',
      'ShipCity': 'Berlin',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'Freight': 152.3,
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      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
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      'CustomerID': 'QUEEN',
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    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'CustomerID': 'HILAA',
    'OrderDate': '1997-10-15T00:00:00.000Z',
    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 3.52,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'OLDWO',
    'OrderDate': '1997-10-16T00:00:00.000Z',
    'ShippedDate': '1997-10-21T00:00:00.000Z',
    'Freight': 135.63,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'AROUT',
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    'ShippedDate': '1997-10-23T00:00:00.000Z',
    'Freight': 21.74,
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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'THEBI',
    'OrderDate': '1997-10-17T00:00:00.000Z',
    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 2.96,
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    'ShipAddress': '89 Jefferson Way Suite 2',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
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      'Freight': 210.8,
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      'ShipAddress': 'Av. Brasil, 442',
      'ShipCity': 'Campinas',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
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      'CustomerID': 'FRANS',
      'OrderDate': '1997-10-20T00:00:00.000Z',
      'ShippedDate': '1997-10-23T00:00:00.000Z',
      'Freight': 4.98,
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      'ShipAddress': 'Via Monte Bianco 34',
      'ShipCity': 'Torino',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'CustomerID': 'SAVEA',
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      'ShippedDate': '1997-10-29T00:00:00.000Z',
      'Freight': 52.41,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10712,
      'CustomerID': 'HUNGO',
      'OrderDate': '1997-10-21T00:00:00.000Z',
      'ShippedDate': '1997-10-31T00:00:00.000Z',
      'Freight': 89.93,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
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      'CustomerID': 'SAVEA',
      'OrderDate': '1997-10-22T00:00:00.000Z',
      'ShippedDate': '1997-10-24T00:00:00.000Z',
      'Freight': 167.05,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',

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    'Freight': 24.49,
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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'BONAP',
    'OrderDate': '1997-10-23T00:00:00.000Z',
    'ShippedDate': '1997-10-29T00:00:00.000Z',
    'Freight': 63.2,
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    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'RANCH',
    'OrderDate': '1997-10-24T00:00:00.000Z',
    'ShippedDate': '1997-10-27T00:00:00.000Z',
    'Freight': 22.57,
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    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10717,
    'CustomerID': 'FRANK',
    'OrderDate': '1997-10-24T00:00:00.000Z',
    'ShippedDate': '1997-10-29T00:00:00.000Z',
    'Freight': 59.25,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10718,
    'CustomerID': 'KOENE',
    'OrderDate': '1997-10-27T00:00:00.000Z',
    'ShippedDate': '1997-10-29T00:00:00.000Z',
    'Freight': 170.88,
    'ShipName': 'Königlich Essen',

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    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
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    'CustomerID': 'LETSS',
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    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 51.44,
    'ShipName': 'Let\ Stop N Shop',
    'ShipAddress': '87 Polk St. Suite 5',
    'ShipCity': 'San Francisco',
    'ShipRegion': 'CA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10720,
    'CustomerID': 'QUEDE',
    'OrderDate': '1997-10-28T00:00:00.000Z',
    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 9.53,
    'ShipName': 'Que Delícia',
    'ShipAddress': 'Rua da Panificadora, 12',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10721,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-10-29T00:00:00.000Z',
    'ShippedDate': '1997-10-31T00:00:00.000Z',
    'Freight': 48.92,
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    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10722,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-10-29T00:00:00.000Z',
    'ShippedDate': '1997-11-04T00:00:00.000Z',
    'Freight': 74.58,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'WHITC',
    'OrderDate': '1997-10-30T00:00:00.000Z',

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    'ShippedDate': '1997-11-25T00:00:00.000Z',
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    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10724,
    'CustomerID': 'MEREP',
    'OrderDate': '1997-10-30T00:00:00.000Z',
    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 57.75,
    'ShipName': 'Mère Paillarde',
    'ShipAddress': '43 rue St. Laurent',
    'ShipCity': 'Montréal',
    'ShipRegion': 'Québec',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10725,
    'CustomerID': 'FAMIA',
    'OrderDate': '1997-10-31T00:00:00.000Z',
    'ShippedDate': '1997-11-05T00:00:00.000Z',
    'Freight': 10.83,
    'ShipName': 'Familia Arquibaldo',
    'ShipAddress': 'Rua Orós, 92',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10726,
    'CustomerID': 'EASTC',
    'OrderDate': '1997-11-03T00:00:00.000Z',
    'ShippedDate': '1997-12-05T00:00:00.000Z',
    'Freight': 16.56,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10727,
    'CustomerID': 'REGGC',
    'OrderDate': '1997-11-03T00:00:00.000Z',
    'ShippedDate': '1997-12-05T00:00:00.000Z',
    'Freight': 89.9,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
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    'OrderDate': '1997-11-04T00:00:00.000Z',
    'ShippedDate': '1997-11-11T00:00:00.000Z',
    'Freight': 58.33,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
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  {
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    'CustomerID': 'LINOD',
    'OrderDate': '1997-11-04T00:00:00.000Z',
    'ShippedDate': '1997-11-14T00:00:00.000Z',
    'Freight': 141.06,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'BONAP',
    'OrderDate': '1997-11-05T00:00:00.000Z',
    'ShippedDate': '1997-11-14T00:00:00.000Z',
    'Freight': 20.12,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10731,
    'CustomerID': 'CHOPS',
    'OrderDate': '1997-11-06T00:00:00.000Z',
    'ShippedDate': '1997-11-14T00:00:00.000Z',
    'Freight': 96.65,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
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    'CustomerID': 'BONAP',
    'OrderDate': '1997-11-06T00:00:00.000Z',
    'ShippedDate': '1997-11-07T00:00:00.000Z',
    'Freight': 16.97,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
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    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
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    'Freight': 110.11,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
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    'CustomerID': 'GOURL',
    'OrderDate': '1997-11-07T00:00:00.000Z',
    'ShippedDate': '1997-11-12T00:00:00.000Z',
    'Freight': 1.63,
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    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10735,
    'CustomerID': 'LETSS',
    'OrderDate': '1997-11-10T00:00:00.000Z',
    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 45.97,
    'ShipName': 'Let\' Stop N Shop',
    'ShipAddress': '87 Polk St. Suite 5',
    'ShipCity': 'San Francisco',
    'ShipRegion': 'CA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10736,
    'CustomerID': 'HUNGO',
    'OrderDate': '1997-11-11T00:00:00.000Z',
    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 44.1,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10737,
    'CustomerID': 'VINET',
    'OrderDate': '1997-11-11T00:00:00.000Z',
    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 7.79,
    'ShipName': 'Vins et alcools Chevalier',

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      'ShipAddress': '59 rue de l\'Abbaye',
      'ShipCity': 'Reims',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'SPEC'D',
      'OrderDate': '1997-11-12T00:00:00.000Z',
      'ShippedDate': '1997-11-18T00:00:00.000Z',
      'Freight': 2.91,
      'ShipName': 'Spécialités du monde',
      'ShipAddress': '25, rue Lauriston',
      'ShipCity': 'Paris',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10739,
      'CustomerID': 'VINET',
      'OrderDate': '1997-11-12T00:00:00.000Z',
      'ShippedDate': '1997-11-17T00:00:00.000Z',
      'Freight': 11.08,
      'ShipName': 'Vins et alcools Chevalier',
      'ShipAddress': '59 rue de l\'Abbaye',
      'ShipCity': 'Reims',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10740,
      'CustomerID': 'WHITC',
      'OrderDate': '1997-11-13T00:00:00.000Z',
      'ShippedDate': '1997-11-25T00:00:00.000Z',
      'Freight': 81.88,
      'ShipName': 'White Clover Markets',
      'ShipAddress': '1029 - 12th Ave. S.',
      'ShipCity': 'Seattle',
      'ShipRegion': 'WA',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10741,
      'CustomerID': 'AROUT',
      'OrderDate': '1997-11-14T00:00:00.000Z',
      'ShippedDate': '1997-11-18T00:00:00.000Z',
      'Freight': 10.96,
      'ShipName': 'Around the Horn',
      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10742,
      'CustomerID': 'BOTTM',
      'OrderDate': '1997-11-14T00:00:00.000Z',

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    'ShippedDate': '1997-11-18T00:00:00.000Z',
    'Freight': 243.73,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10743,
    'CustomerID': 'AROUT',
    'OrderDate': '1997-11-17T00:00:00.000Z',
    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 23.72,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10744,
    'CustomerID': 'VAFFE',
    'OrderDate': '1997-11-17T00:00:00.000Z',
    'ShippedDate': '1997-11-24T00:00:00.000Z',
    'Freight': 69.19,
    'ShipName': 'Vaffeljernet',
    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
    'OrderID': 10745,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-11-18T00:00:00.000Z',
    'ShippedDate': '1997-11-27T00:00:00.000Z',
    'Freight': 3.52,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10746,
    'CustomerID': 'CHOPS',
    'OrderDate': '1997-11-19T00:00:00.000Z',
    'ShippedDate': '1997-11-21T00:00:00.000Z',
    'Freight': 31.43,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {

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    'OrderID': 10747,
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    'OrderDate': '1997-11-19T00:00:00.000Z',
    'ShippedDate': '1997-11-26T00:00:00.000Z',
    'Freight': 117.33,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10748,
    'CustomerID': 'SAVEA',
    'OrderDate': '1997-11-20T00:00:00.000Z',
    'ShippedDate': '1997-11-28T00:00:00.000Z',
    'Freight': 232.55,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10749,
    'CustomerID': 'ISLAT',
    'OrderDate': '1997-11-20T00:00:00.000Z',
    'ShippedDate': '1997-12-19T00:00:00.000Z',
    'Freight': 61.53,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10750,
    'CustomerID': 'WARTH',
    'OrderDate': '1997-11-21T00:00:00.000Z',
    'ShippedDate': '1997-11-24T00:00:00.000Z',
    'Freight': 79.3,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10751,
    'CustomerID': 'RICSU',
    'OrderDate': '1997-11-24T00:00:00.000Z',
    'ShippedDate': '1997-12-03T00:00:00.000Z',
    'Freight': 130.79,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,

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    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 10752,
    'CustomerID': 'NORTS',
    'OrderDate': '1997-11-24T00:00:00.000Z',
    'ShippedDate': '1997-11-28T00:00:00.000Z',
    'Freight': 1.39,
    'ShipName': 'North/South',
    'ShipAddress': 'South House 300 Queensbridge',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10753,
    'CustomerID': 'FRANS',
    'OrderDate': '1997-11-25T00:00:00.000Z',
    'ShippedDate': '1997-11-27T00:00:00.000Z',
    'Freight': 7.7,
    'ShipName': 'Franchi S.p.A.',
    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10754,
    'CustomerID': 'MAGAA',
    'OrderDate': '1997-11-25T00:00:00.000Z',
    'ShippedDate': '1997-11-27T00:00:00.000Z',
    'Freight': 2.38,
    'ShipName': 'Magazzini Alimentari Riuniti',
    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 10755,
    'CustomerID': 'BONAP',
    'OrderDate': '1997-11-26T00:00:00.000Z',
    'ShippedDate': '1997-11-28T00:00:00.000Z',
    'Freight': 16.71,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10756,
    'CustomerID': 'SPLIR',
    'OrderDate': '1997-11-27T00:00:00.000Z',
    'ShippedDate': '1997-12-02T00:00:00.000Z',
    'Freight': 73.21,
    'ShipName': 'Split Rail Beer & Ale',

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      'ShipAddress': 'P.O. Box 555',
      'ShipCity': 'Lander',
      'ShipRegion': 'WY',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'SAVEA',
      'OrderDate': '1997-11-27T00:00:00.000Z',
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      'Freight': 8.19,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'RICSU',
      'OrderDate': '1997-11-28T00:00:00.000Z',
      'ShippedDate': '1997-12-04T00:00:00.000Z',
      'Freight': 138.17,
      'ShipName': 'Richter Supermarkt',
      'ShipAddress': 'Starenweg 5',
      'ShipCity': 'Genève',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10759,
      'CustomerID': 'ANATR',
      'OrderDate': '1997-11-28T00:00:00.000Z',
      'ShippedDate': '1997-12-12T00:00:00.000Z',
      'Freight': 11.99,
      'ShipName': 'Ana Trujillo Emparedados y helados',
      'ShipAddress': 'Avda. de la Constitución 2222',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 10760,
      'CustomerID': 'MAISD',
      'OrderDate': '1997-12-01T00:00:00.000Z',
      'ShippedDate': '1997-12-10T00:00:00.000Z',
      'Freight': 155.64,
      'ShipName': 'Maison Dewey',
      'ShipAddress': 'Rue Joseph-Bens 532',
      'ShipCity': 'Bruxelles',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
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      'CustomerID': 'RATTC',
      'OrderDate': '1997-12-02T00:00:00.000Z',

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    'ShippedDate': '1997-12-08T00:00:00.000Z',
    'Freight': 18.66,
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    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10762,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-12-02T00:00:00.000Z',
    'ShippedDate': '1997-12-09T00:00:00.000Z',
    'Freight': 328.74,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergratan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10763,
    'CustomerID': 'FOLIG',
    'OrderDate': '1997-12-03T00:00:00.000Z',
    'ShippedDate': '1997-12-08T00:00:00.000Z',
    'Freight': 37.35,
    'ShipName': 'Folies gourmandes',
    'ShipAddress': '184, chaussée de Tournai',
    'ShipCity': 'Lille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10764,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-03T00:00:00.000Z',
    'ShippedDate': '1997-12-08T00:00:00.000Z',
    'Freight': 145.45,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10765,
    'CustomerID': 'QUICK',
    'OrderDate': '1997-12-04T00:00:00.000Z',
    'ShippedDate': '1997-12-09T00:00:00.000Z',
    'Freight': 42.74,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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      'OrderDate': '1997-12-05T00:00:00.000Z',
      'ShippedDate': '1997-12-09T00:00:00.000Z',
      'Freight': 157.55,
      'ShipName': 'Ottilies Käseladen',
      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10767,
      'CustomerID': 'SUPRD',
      'OrderDate': '1997-12-05T00:00:00.000Z',
      'ShippedDate': '1997-12-15T00:00:00.000Z',
      'Freight': 1.59,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
      'OrderID': 10768,
      'CustomerID': 'AROUT',
      'OrderDate': '1997-12-08T00:00:00.000Z',
      'ShippedDate': '1997-12-15T00:00:00.000Z',
      'Freight': 146.32,
      'ShipName': 'Around the Horn',
      'ShipAddress': 'Brook Farm Stratford St. Mary',
      'ShipCity': 'Colchester',
      'ShipRegion': 'Essex',
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10769,
      'CustomerID': 'VAFFE',
      'OrderDate': '1997-12-08T00:00:00.000Z',
      'ShippedDate': '1997-12-12T00:00:00.000Z',
      'Freight': 65.06,
      'ShipName': 'Vaffeljernet',
      'ShipAddress': 'Smagsloget 45',
      'ShipCity': 'Århus',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
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      'CustomerID': 'HANAR',
      'OrderDate': '1997-12-09T00:00:00.000Z',
      'ShippedDate': '1997-12-17T00:00:00.000Z',
      'Freight': 5.32,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',

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    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-10T00:00:00.000Z',
    'ShippedDate': '1998-01-02T00:00:00.000Z',
    'Freight': 11.19,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10772,
    'CustomerID': 'LEHMS',
    'OrderDate': '1997-12-10T00:00:00.000Z',
    'ShippedDate': '1997-12-19T00:00:00.000Z',
    'Freight': 91.28,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10773,
    'CustomerID': 'ERNSH',
    'OrderDate': '1997-12-11T00:00:00.000Z',
    'ShippedDate': '1997-12-16T00:00:00.000Z',
    'Freight': 96.43,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10774,
    'CustomerID': 'FOLKO',
    'OrderDate': '1997-12-11T00:00:00.000Z',
    'ShippedDate': '1997-12-12T00:00:00.000Z',
    'Freight': 48.2,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10775,
    'CustomerID': 'THECR',
    'OrderDate': '1997-12-12T00:00:00.000Z',
    'ShippedDate': '1997-12-26T00:00:00.000Z',
    'Freight': 20.25,
    'ShipName': 'The Cracker Box',

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      'ShipAddress': '55 Grizzly Peak Rd.',
      'ShipCity': 'Butte',
      'ShipRegion': 'MT',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10776,
      'CustomerID': 'ERNSH',
      'OrderDate': '1997-12-15T00:00:00.000Z',
      'ShippedDate': '1997-12-18T00:00:00.000Z',
      'Freight': 351.53,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10777,
      'CustomerID': 'GOURL',
      'OrderDate': '1997-12-15T00:00:00.000Z',
      'ShippedDate': '1998-01-21T00:00:00.000Z',
      'Freight': 3.01,
      'ShipName': 'Gourmet Lanchonetes',
      'ShipAddress': 'Av. Brasil, 442',
      'ShipCity': 'Campinas',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10778,
      'CustomerID': 'BERGS',
      'OrderDate': '1997-12-16T00:00:00.000Z',
      'ShippedDate': '1997-12-24T00:00:00.000Z',
      'Freight': 6.79,
      'ShipName': 'Berglunds snabbköp',
      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
      'OrderID': 10779,
      'CustomerID': 'MORGK',
      'OrderDate': '1997-12-16T00:00:00.000Z',
      'ShippedDate': '1998-01-14T00:00:00.000Z',
      'Freight': 58.13,
      'ShipName': 'Morgenstern Gesundkost',
      'ShipAddress': 'Heerstr. 22',
      'ShipCity': 'Leipzig',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10780,
      'CustomerID': 'LILAS',
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      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
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      'Freight': 73.16,
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      'ShipCountry': 'Finland'
    },
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      'ShipAddress': 'Cerrito 333',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
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      'Freight': 124.98,
      'ShipName': 'Hanari Carnes',
      'ShipAddress': 'Rua do Paço, 67',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
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      'OrderDate': '1997-12-18T00:00:00.000Z',
      'ShippedDate': '1997-12-22T00:00:00.000Z',
      'Freight': 70.09,
      'ShipName': 'Magazzini Alimentari Riuniti',
      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    }
  ],
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    'ShipCity': 'Caracas',
    'ShipRegion': 'DF',
    'ShipCountry': 'Venezuela'
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    'ShippedDate': '1997-12-23T00:00:00.000Z',
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    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'CustomerID': 'LAMAI',
    'OrderDate': '1997-12-19T00:00:00.000Z',
    'ShippedDate': '1997-12-26T00:00:00.000Z',
    'Freight': 249.93,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'ShippedDate': '1998-01-19T00:00:00.000Z',
    'Freight': 42.7,
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    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'CustomerID': 'FOLIG',
    'OrderDate': '1997-12-22T00:00:00.000Z',
    'ShippedDate': '1997-12-31T00:00:00.000Z',
    'Freight': 100.6,
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    'ShipAddress': '184, chaussée de Tournai',
    'ShipCity': 'Lille',
    'ShipRegion': null,

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  },
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    'Freight': 28.23,
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    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'CustomerID': 'FRANK',
    'OrderDate': '1997-12-23T00:00:00.000Z',
    'ShippedDate': '1998-01-01T00:00:00.000Z',
    'Freight': 16.85,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'OrderID': 10792,
    'CustomerID': 'WOLZA',
    'OrderDate': '1997-12-23T00:00:00.000Z',
    'ShippedDate': '1997-12-31T00:00:00.000Z',
    'Freight': 23.79,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
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    'CustomerID': 'AROUT',
    'OrderDate': '1997-12-24T00:00:00.000Z',
    'ShippedDate': '1998-01-08T00:00:00.000Z',
    'Freight': 4.52,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10794,
    'CustomerID': 'QUEDE',
    'OrderDate': '1997-12-24T00:00:00.000Z',
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    'Freight': 21.49,
    'ShipName': 'Que Delícia',

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    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
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    'ShippedDate': '1998-01-20T00:00:00.000Z',
    'Freight': 126.66,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10796,
    'CustomerID': 'HILAA',
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    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 26.52,
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    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10797,
    'CustomerID': 'DRACD',
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    'ShippedDate': '1998-01-05T00:00:00.000Z',
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    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'CustomerID': 'ISLAT',
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    'ShippedDate': '1998-01-05T00:00:00.000Z',
    'Freight': 2.33,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'KOENE',
    'OrderDate': '1997-12-26T00:00:00.000Z',

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      'ShippedDate': '1998-01-05T00:00:00.000Z',
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      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'SEVES',
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      'Freight': 137.44,
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      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10801,
      'CustomerID': 'BOLID',
      'OrderDate': '1997-12-29T00:00:00.000Z',
      'ShippedDate': '1997-12-31T00:00:00.000Z',
      'Freight': 97.09,
      'ShipName': 'Bólido Comidas preparadas',
      'ShipAddress': 'C/ Araquil, 67',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
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      'CustomerID': 'SIMOB',
      'OrderDate': '1997-12-29T00:00:00.000Z',
      'ShippedDate': '1998-01-02T00:00:00.000Z',
      'Freight': 257.26,
      'ShipName': 'Simons bistro',
      'ShipAddress': 'Vinbæltet 34',
      'ShipCity': 'Kobenhavn',
      'ShipRegion': null,
      'ShipCountry': 'Denmark'
    },
    {
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      'CustomerID': 'WELLI',
      'OrderDate': '1997-12-30T00:00:00.000Z',
      'ShippedDate': '1998-01-06T00:00:00.000Z',
      'Freight': 55.23,
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      'ShipAddress': 'Rua do Mercado, 12',
      'ShipCity': 'Resende',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    }
  ],
  {

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      'Freight': 27.33,
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      'ShipAddress': '90 Wadhurst Rd.',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
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      'CustomerID': 'THEBI',
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      'ShippedDate': '1998-01-09T00:00:00.000Z',
      'Freight': 237.34,
      'ShipName': 'The Big Cheese',
      'ShipAddress': '89 Jefferson Way Suite 2',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10806,
      'CustomerID': 'VICTE',
      'OrderDate': '1997-12-31T00:00:00.000Z',
      'ShippedDate': '1998-01-05T00:00:00.000Z',
      'Freight': 22.11,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10807,
      'CustomerID': 'FRANS',
      'OrderDate': '1997-12-31T00:00:00.000Z',
      'ShippedDate': '1998-01-30T00:00:00.000Z',
      'Freight': 1.36,
      'ShipName': 'Franchi S.p.A.',
      'ShipAddress': 'Via Monte Bianco 34',
      'ShipCity': 'Torino',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'CustomerID': 'OLDWO',
      'OrderDate': '1998-01-01T00:00:00.000Z',
      'ShippedDate': '1998-01-09T00:00:00.000Z',
      'Freight': 45.53,
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      'ShipAddress': '2743 Bering St.',
      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',

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    'Freight': 4.87,
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    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
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    'OrderDate': '1998-01-01T00:00:00.000Z',
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    'Freight': 4.33,
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    'ShipAddress': '2319 Elm St.',
    'ShipCity': 'Vancouver',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'LINOD',
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    'ShippedDate': '1998-01-08T00:00:00.000Z',
    'Freight': 31.22,
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    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10812,
    'CustomerID': 'REGGC',
    'OrderDate': '1998-01-02T00:00:00.000Z',
    'ShippedDate': '1998-01-12T00:00:00.000Z',
    'Freight': 59.78,
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    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
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    'CustomerID': 'RICAR',
    'OrderDate': '1998-01-05T00:00:00.000Z',
    'ShippedDate': '1998-01-09T00:00:00.000Z',
    'Freight': 47.38,
    'ShipName': 'Ricardo Adocicados',

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      'ShipCity': 'Rio de Janeiro',
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      'ShipCountry': 'Brazil'
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      'CustomerID': 'VICTE',
      'OrderDate': '1998-01-05T00:00:00.000Z',
      'ShippedDate': '1998-01-14T00:00:00.000Z',
      'Freight': 130.94,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'CustomerID': 'SAVEA',
      'OrderDate': '1998-01-05T00:00:00.000Z',
      'ShippedDate': '1998-01-14T00:00:00.000Z',
      'Freight': 14.62,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10816,
      'CustomerID': 'GREAL',
      'OrderDate': '1998-01-06T00:00:00.000Z',
      'ShippedDate': '1998-02-04T00:00:00.000Z',
      'Freight': 719.78,
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      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10817,
      'CustomerID': 'KOENE',
      'OrderDate': '1998-01-06T00:00:00.000Z',
      'ShippedDate': '1998-01-13T00:00:00.000Z',
      'Freight': 306.07,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'MAGAA',
      'OrderDate': '1998-01-07T00:00:00.000Z',

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    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
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    'CustomerID': 'CACTU',
    'OrderDate': '1998-01-07T00:00:00.000Z',
    'ShippedDate': '1998-01-16T00:00:00.000Z',
    'Freight': 19.76,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
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    'CustomerID': 'RATTC',
    'OrderDate': '1998-01-07T00:00:00.000Z',
    'ShippedDate': '1998-01-13T00:00:00.000Z',
    'Freight': 37.52,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10821,
    'CustomerID': 'SPLIR',
    'OrderDate': '1998-01-08T00:00:00.000Z',
    'ShippedDate': '1998-01-15T00:00:00.000Z',
    'Freight': 36.68,
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    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10822,
    'CustomerID': 'TRAIH',
    'OrderDate': '1998-01-08T00:00:00.000Z',
    'ShippedDate': '1998-01-16T00:00:00.000Z',
    'Freight': 7,
    'ShipName': 'Trail\' Head Gourmet Provisioners',
    'ShipAddress': '722 DaVinci Blvd.',
    'ShipCity': 'Kirkland',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  }
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    'Freight': 163.97,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10824,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-01-09T00:00:00.000Z',
    'ShippedDate': '1998-01-30T00:00:00.000Z',
    'Freight': 1.23,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10825,
    'CustomerID': 'DRACD',
    'OrderDate': '1998-01-09T00:00:00.000Z',
    'ShippedDate': '1998-01-14T00:00:00.000Z',
    'Freight': 79.25,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10826,
    'CustomerID': 'BLONP',
    'OrderDate': '1998-01-12T00:00:00.000Z',
    'ShippedDate': '1998-02-06T00:00:00.000Z',
    'Freight': 7.09,
    'ShipName': 'Blondel père et fils',
    'ShipAddress': '24, place Kléber',
    'ShipCity': 'Strasbourg',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10827,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-01-12T00:00:00.000Z',
    'ShippedDate': '1998-02-06T00:00:00.000Z',
    'Freight': 63.54,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,

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    'ShipCountry': 'France'
  },
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    'CustomerID': 'RANCH',
    'OrderDate': '1998-01-13T00:00:00.000Z',
    'ShippedDate': '1998-02-04T00:00:00.000Z',
    'Freight': 90.85,
    'ShipName': 'Rancho grande',
    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10829,
    'CustomerID': 'ISLAT',
    'OrderDate': '1998-01-13T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 154.72,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'TRADH',
    'OrderDate': '1998-01-13T00:00:00.000Z',
    'ShippedDate': '1998-01-21T00:00:00.000Z',
    'Freight': 81.83,
    'ShipName': 'Tradição Hipermercados',
    'ShipAddress': 'Av. Inês de Castro, 414',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10831,
    'CustomerID': 'SANTG',
    'OrderDate': '1998-01-14T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 72.19,
    'ShipName': 'Santé Gourmet',
    'ShipAddress': 'Erling Skakkes gate 78',
    'ShipCity': 'Stavern',
    'ShipRegion': null,
    'ShipCountry': 'Norway'
  },
  {
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    'Freight': 43.26,
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      'ShipAddress': '1 rue Alsace-Lorraine',
      'ShipCity': 'Toulouse',
      'ShipRegion': null,
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    },
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      'ShippedDate': '1998-01-23T00:00:00.000Z',
      'Freight': 71.49,
      'ShipName': 'Ottilies Käseladen',
      'ShipAddress': 'Mehrheimerstr. 369',
      'ShipCity': 'Köln',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'TRADH',
      'OrderDate': '1998-01-15T00:00:00.000Z',
      'ShippedDate': '1998-01-19T00:00:00.000Z',
      'Freight': 29.78,
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      'ShipAddress': 'Av. Inês de Castro, 414',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10835,
      'CustomerID': 'ALFKI',
      'OrderDate': '1998-01-15T00:00:00.000Z',
      'ShippedDate': '1998-01-21T00:00:00.000Z',
      'Freight': 69.53,
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      'ShipAddress': 'Obere Str. 57',
      'ShipCity': 'Berlin',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10836,
      'CustomerID': 'ERNSH',
      'OrderDate': '1998-01-16T00:00:00.000Z',
      'ShippedDate': '1998-01-21T00:00:00.000Z',
      'Freight': 411.88,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 10837,
      'CustomerID': 'BERGS',
      'OrderDate': '1998-01-16T00:00:00.000Z',

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    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 13.32,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
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    'OrderDate': '1998-01-19T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 59.28,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'TRADH',
    'OrderDate': '1998-01-19T00:00:00.000Z',
    'ShippedDate': '1998-01-22T00:00:00.000Z',
    'Freight': 35.43,
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    'ShipAddress': 'Av. Inês de Castro, 414',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'LINOD',
    'OrderDate': '1998-01-19T00:00:00.000Z',
    'ShippedDate': '1998-02-16T00:00:00.000Z',
    'Freight': 2.71,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
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    'CustomerID': 'SUPRD',
    'OrderDate': '1998-01-20T00:00:00.000Z',
    'ShippedDate': '1998-01-29T00:00:00.000Z',
    'Freight': 424.3,
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    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
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    'Freight': 54.42,
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    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10843,
    'CustomerID': 'VICTE',
    'OrderDate': '1998-01-21T00:00:00.000Z',
    'ShippedDate': '1998-01-26T00:00:00.000Z',
    'Freight': 9.26,
    'ShipName': 'Victuailles en stock',
    'ShipAddress': '2, rue du Commerce',
    'ShipCity': 'Lyon',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10844,
    'CustomerID': 'PICCO',
    'OrderDate': '1998-01-21T00:00:00.000Z',
    'ShippedDate': '1998-01-26T00:00:00.000Z',
    'Freight': 25.22,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 10845,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-01-21T00:00:00.000Z',
    'ShippedDate': '1998-01-30T00:00:00.000Z',
    'Freight': 212.98,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'CustomerID': 'SUPRD',
    'OrderDate': '1998-01-22T00:00:00.000Z',
    'ShippedDate': '1998-01-23T00:00:00.000Z',
    'Freight': 56.46,
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    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,

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      'ShipCountry': 'Belgium'
    },
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      'CustomerID': 'SAVEA',
      'OrderDate': '1998-01-22T00:00:00.000Z',
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      'Freight': 487.57,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 10848,
      'CustomerID': 'CONSH',
      'OrderDate': '1998-01-23T00:00:00.000Z',
      'ShippedDate': '1998-01-29T00:00:00.000Z',
      'Freight': 38.24,
      'ShipName': 'Consolidated Holdings',
      'ShipAddress': 'Berkeley Gardens 12 Brewery',
      'ShipCity': 'London',
      'ShipRegion': null,
      'ShipCountry': 'UK'
    },
    {
      'OrderID': 10849,
      'CustomerID': 'KOENE',
      'OrderDate': '1998-01-23T00:00:00.000Z',
      'ShippedDate': '1998-01-30T00:00:00.000Z',
      'Freight': 0.56,
      'ShipName': 'Königlich Essen',
      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10850,
      'CustomerID': 'VICTE',
      'OrderDate': '1998-01-23T00:00:00.000Z',
      'ShippedDate': '1998-01-30T00:00:00.000Z',
      'Freight': 49.19,
      'ShipName': 'Victuailles en stock',
      'ShipAddress': '2, rue du Commerce',
      'ShipCity': 'Lyon',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
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      'CustomerID': 'RICAR',
      'OrderDate': '1998-01-26T00:00:00.000Z',
      'ShippedDate': '1998-02-02T00:00:00.000Z',
      'Freight': 160.55,
      'ShipName': 'Ricardo Adocicados',

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    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
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    'CustomerID': 'RATTC',
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    'ShippedDate': '1998-01-30T00:00:00.000Z',
    'Freight': 174.05,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
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    'OrderDate': '1998-01-27T00:00:00.000Z',
    'ShippedDate': '1998-02-03T00:00:00.000Z',
    'Freight': 53.83,
    'ShipName': 'Blauer See Delikatessen',
    'ShipAddress': 'Forsterstr. 57',
    'ShipCity': 'Mannheim',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10854,
    'CustomerID': 'ERNSH',
    'OrderDate': '1998-01-27T00:00:00.000Z',
    'ShippedDate': '1998-02-05T00:00:00.000Z',
    'Freight': 100.22,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
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    'CustomerID': 'OLDWO',
    'OrderDate': '1998-01-27T00:00:00.000Z',
    'ShippedDate': '1998-02-04T00:00:00.000Z',
    'Freight': 170.97,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'ANTON',
    'OrderDate': '1998-01-28T00:00:00.000Z',

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    'ShippedDate': '1998-02-10T00:00:00.000Z',
    'Freight': 58.43,
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    'ShipAddress': 'Mataderos 2312',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
    'OrderID': 10857,
    'CustomerID': 'BERGS',
    'OrderDate': '1998-01-28T00:00:00.000Z',
    'ShippedDate': '1998-02-06T00:00:00.000Z',
    'Freight': 188.85,
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    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'LACOR',
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    'ShippedDate': '1998-02-03T00:00:00.000Z',
    'Freight': 52.51,
    'ShipName': 'La corne d\'abondance',
    'ShipAddress': '67, avenue de l\'Europe',
    'ShipCity': 'Versailles',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10859,
    'CustomerID': 'FRANK',
    'OrderDate': '1998-01-29T00:00:00.000Z',
    'ShippedDate': '1998-02-02T00:00:00.000Z',
    'Freight': 76.1,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'FRANR',
    'OrderDate': '1998-01-29T00:00:00.000Z',
    'ShippedDate': '1998-02-04T00:00:00.000Z',
    'Freight': 19.26,
    'ShipName': 'France restauration',
    'ShipAddress': '54, rue Royale',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
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    'OrderID': 10861,
    'CustomerID': 'WHITC',
    'OrderDate': '1998-01-30T00:00:00.000Z',
    'ShippedDate': '1998-02-17T00:00:00.000Z',
    'Freight': 14.93,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10862,
    'CustomerID': 'LEHMS',
    'OrderDate': '1998-01-30T00:00:00.000Z',
    'ShippedDate': '1998-02-02T00:00:00.000Z',
    'Freight': 53.23,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10863,
    'CustomerID': 'HILAA',
    'OrderDate': '1998-02-02T00:00:00.000Z',
    'ShippedDate': '1998-02-17T00:00:00.000Z',
    'Freight': 30.26,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 10864,
    'CustomerID': 'AROUT',
    'OrderDate': '1998-02-02T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 3.04,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10865,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-02-02T00:00:00.000Z',
    'ShippedDate': '1998-02-12T00:00:00.000Z',
    'Freight': 348.14,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,

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    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'BERGS',
    'OrderDate': '1998-02-03T00:00:00.000Z',
    'ShippedDate': '1998-02-12T00:00:00.000Z',
    'Freight': 109.11,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'LONEP',
    'OrderDate': '1998-02-03T00:00:00.000Z',
    'ShippedDate': '1998-02-11T00:00:00.000Z',
    'Freight': 1.93,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10868,
    'CustomerID': 'QUEEN',
    'OrderDate': '1998-02-04T00:00:00.000Z',
    'ShippedDate': '1998-02-23T00:00:00.000Z',
    'Freight': 191.27,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10869,
    'CustomerID': 'SEVES',
    'OrderDate': '1998-02-04T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 143.28,
    'ShipName': 'Seven Seas Imports',
    'ShipAddress': '90 Wadhurst Rd.',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10870,
    'CustomerID': 'WOLZA',
    'OrderDate': '1998-02-04T00:00:00.000Z',
    'ShippedDate': '1998-02-13T00:00:00.000Z',
    'Freight': 12.04,
    'ShipName': 'Wolski Zajazd',

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    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 10871,
    'CustomerID': 'BONAP',
    'OrderDate': '1998-02-05T00:00:00.000Z',
    'ShippedDate': '1998-02-10T00:00:00.000Z',
    'Freight': 112.27,
    'ShipName': 'Bon app',
    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10872,
    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-05T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 175.32,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10873,
    'CustomerID': 'WILMK',
    'OrderDate': '1998-02-06T00:00:00.000Z',
    'ShippedDate': '1998-02-09T00:00:00.000Z',
    'Freight': 0.82,
    'ShipName': 'Wilman Kala',
    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
    'OrderID': 10874,
    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-06T00:00:00.000Z',
    'ShippedDate': '1998-02-11T00:00:00.000Z',
    'Freight': 19.58,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10875,
    'CustomerID': 'BERGS',
    'OrderDate': '1998-02-06T00:00:00.000Z',

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      'ShippedDate': '1998-03-03T00:00:00.000Z',
      'Freight': 32.37,
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      'ShipAddress': 'Berguvsvägen 8',
      'ShipCity': 'Luleå',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    },
    {
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      'CustomerID': 'BONAP',
      'OrderDate': '1998-02-09T00:00:00.000Z',
      'ShippedDate': '1998-02-12T00:00:00.000Z',
      'Freight': 60.42,
      'ShipName': 'Bon app',
      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
    {
      'OrderID': 10877,
      'CustomerID': 'RICAR',
      'OrderDate': '1998-02-09T00:00:00.000Z',
      'ShippedDate': '1998-02-19T00:00:00.000Z',
      'Freight': 38.06,
      'ShipName': 'Ricardo Adocicados',
      'ShipAddress': 'Av. Copacabana, 267',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10878,
      'CustomerID': 'QUICK',
      'OrderDate': '1998-02-10T00:00:00.000Z',
      'ShippedDate': '1998-02-12T00:00:00.000Z',
      'Freight': 46.69,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10879,
      'CustomerID': 'WILMK',
      'OrderDate': '1998-02-10T00:00:00.000Z',
      'ShippedDate': '1998-02-12T00:00:00.000Z',
      'Freight': 8.5,
      'ShipName': 'Wilman Kala',
      'ShipAddress': 'Keskuskatu 45',
      'ShipCity': 'Helsinki',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    }
  ],
  {

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    'ShippedDate': '1998-02-18T00:00:00.000Z',
    'Freight': 88.01,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10881,
    'CustomerID': 'CACTU',
    'OrderDate': '1998-02-11T00:00:00.000Z',
    'ShippedDate': '1998-02-18T00:00:00.000Z',
    'Freight': 2.84,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 10882,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-02-11T00:00:00.000Z',
    'ShippedDate': '1998-02-20T00:00:00.000Z',
    'Freight': 23.1,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10883,
    'CustomerID': 'LONEP',
    'OrderDate': '1998-02-12T00:00:00.000Z',
    'ShippedDate': '1998-02-20T00:00:00.000Z',
    'Freight': 0.53,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
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    'Freight': 90.97,
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    'ShipCity': 'San Francisco',
    'ShipRegion': 'CA',
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  {
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    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
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    'Freight': 4.99,
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    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
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    'Freight': 1.25,
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    'ShipCity': 'Barcelona',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
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    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
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      'ShipRegion': 'NM',
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      'Freight': 32.76,
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      'ShipAddress': '67, rue des Cinquante Otages',
      'ShipCity': 'Nantes',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'ShippedDate': '1998-02-19T00:00:00.000Z',
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      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
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      'CustomerID': 'MAISD',
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      'ShipAddress': 'Rue Joseph-Bens 532',
      'ShipCity': 'Bruxelles',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
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      'Freight': 77.78,
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      'ShipAddress': 'Maubelstr. 90',
      'ShipCity': 'Brandenburg',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
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      'CustomerID': 'SAVEA',
      'OrderDate': '1998-02-18T00:00:00.000Z',

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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
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    'CustomerID': 'MAISD',
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    'Freight': 32.45,
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    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
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    'CustomerID': 'HUNGO',
    'OrderDate': '1998-02-19T00:00:00.000Z',
    'ShippedDate': '1998-02-25T00:00:00.000Z',
    'Freight': 603.54,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10898,
    'CustomerID': 'OCEAN',
    'OrderDate': '1998-02-20T00:00:00.000Z',
    'ShippedDate': '1998-03-06T00:00:00.000Z',
    'Freight': 1.27,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
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    'Freight': 1.21,
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    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
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    'Freight': 1.66,
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    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'HILAA',
    'OrderDate': '1998-02-23T00:00:00.000Z',
    'ShippedDate': '1998-02-26T00:00:00.000Z',
    'Freight': 62.09,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'ShippedDate': '1998-03-03T00:00:00.000Z',
    'Freight': 44.15,
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    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'HANAR',
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    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 36.71,
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    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
  }

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    'OrderDate': '1998-02-24T00:00:00.000Z',
    'ShippedDate': '1998-02-27T00:00:00.000Z',
    'Freight': 162.95,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'WELLI',
    'OrderDate': '1998-02-24T00:00:00.000Z',
    'ShippedDate': '1998-03-06T00:00:00.000Z',
    'Freight': 13.72,
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    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'WOLZA',
    'OrderDate': '1998-02-25T00:00:00.000Z',
    'ShippedDate': '1998-03-03T00:00:00.000Z',
    'Freight': 26.29,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
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    'CustomerID': 'SPECB',
    'OrderDate': '1998-02-25T00:00:00.000Z',
    'ShippedDate': '1998-02-27T00:00:00.000Z',
    'Freight': 9.19,
    'ShipName': 'Spécialités du monde',
    'ShipAddress': '25, rue Lauriston',
    'ShipCity': 'Paris',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'REGGC',
    'OrderDate': '1998-02-26T00:00:00.000Z',
    'ShippedDate': '1998-03-06T00:00:00.000Z',
    'Freight': 32.96,
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    'ShipRegion': null,
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    'CustomerID': 'SANTG',
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    'Freight': 53.05,
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    'ShipAddress': 'Erling Skakkes gate 78',
    'ShipCity': 'Stavern',
    'ShipRegion': null,
    'ShipCountry': 'Norway'
  },
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    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 38.11,
    'ShipName': 'Wilman Kala',
    'ShipAddress': 'Keskuskatu 45',
    'ShipCity': 'Helsinki',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
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    'CustomerID': 'GODOS',
    'OrderDate': '1998-02-26T00:00:00.000Z',
    'ShippedDate': '1998-03-05T00:00:00.000Z',
    'Freight': 38.19,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10912,
    'CustomerID': 'HUNGO',
    'OrderDate': '1998-02-26T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 580.91,
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    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
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    'CustomerID': 'QUEEN',
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      'ShippedDate': '1998-03-04T00:00:00.000Z',
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      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'QUEEN',
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      'ShippedDate': '1998-03-02T00:00:00.000Z',
      'Freight': 21.19,
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      'ShipAddress': 'Alameda dos Canários, 891',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'TORTU',
      'OrderDate': '1998-02-27T00:00:00.000Z',
      'ShippedDate': '1998-03-02T00:00:00.000Z',
      'Freight': 3.51,
      'ShipName': 'Tortuga Restaurante',
      'ShipAddress': 'Avda. Azteca 123',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
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      'CustomerID': 'RANCH',
      'OrderDate': '1998-02-27T00:00:00.000Z',
      'ShippedDate': '1998-03-09T00:00:00.000Z',
      'Freight': 63.77,
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      'ShipAddress': 'Av. del Libertador 900',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
    {
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      'CustomerID': 'ROMEY',
      'OrderDate': '1998-03-02T00:00:00.000Z',
      'ShippedDate': '1998-03-11T00:00:00.000Z',
      'Freight': 8.29,
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      'ShipAddress': 'Gran Vía, 1',
      'ShipCity': 'Madrid',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
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  ],
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    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'LINOD',
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    'ShippedDate': '1998-03-04T00:00:00.000Z',
    'Freight': 19.8,
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    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
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    'CustomerID': 'AROUT',
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    'ShippedDate': '1998-03-09T00:00:00.000Z',
    'Freight': 29.61,
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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'VAFFE',
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    'Freight': 176.48,
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    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
  },
  {
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    'CustomerID': 'HANAR',
    'OrderDate': '1998-03-03T00:00:00.000Z',
    'ShippedDate': '1998-03-05T00:00:00.000Z',
    'Freight': 62.74,
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    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
  }

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    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 68.26,
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    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'BERGS',
    'OrderDate': '1998-03-04T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 151.52,
    'ShipName': 'Berglunds snabbköp',
    'ShipAddress': 'Berguvsvägen 8',
    'ShipCity': 'Luleå',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'HANAR',
    'OrderDate': '1998-03-04T00:00:00.000Z',
    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 2.27,
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    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'ANATR',
    'OrderDate': '1998-03-04T00:00:00.000Z',
    'ShippedDate': '1998-03-11T00:00:00.000Z',
    'Freight': 39.92,
    'ShipName': 'Ana Trujillo Emparedados y helados',
    'ShipAddress': 'Avda. de la Constitución 2222',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
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    'CustomerID': 'LACOR',
    'OrderDate': '1998-03-05T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 19.79,
    'ShipName': 'La corne d\'abondance',

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      'ShipAddress': '67, avenue de l\'Europe',
      'ShipCity': 'Versailles',
      'ShipRegion': null,
      'ShipCountry': 'France'
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      'CustomerID': 'GALED',
      'OrderDate': '1998-03-05T00:00:00.000Z',
      'ShippedDate': '1998-03-18T00:00:00.000Z',
      'Freight': 1.36,
      'ShipName': 'Galería del gastronómo',
      'ShipAddress': 'Rambla de Cataluña, 23',
      'ShipCity': 'Barcelona',
      'ShipRegion': null,
      'ShipCountry': 'Spain'
    },
    {
      'OrderID': 10929,
      'CustomerID': 'FRANK',
      'OrderDate': '1998-03-05T00:00:00.000Z',
      'ShippedDate': '1998-03-12T00:00:00.000Z',
      'Freight': 33.93,
      'ShipName': 'Frankenversand',
      'ShipAddress': 'Berliner Platz 43',
      'ShipCity': 'München',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10930,
      'CustomerID': 'SUPRD',
      'OrderDate': '1998-03-06T00:00:00.000Z',
      'ShippedDate': '1998-03-18T00:00:00.000Z',
      'Freight': 15.55,
      'ShipName': 'Suprêmes délices',
      'ShipAddress': 'Boulevard Tirou, 255',
      'ShipCity': 'Charleroi',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
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      'CustomerID': 'RICSU',
      'OrderDate': '1998-03-06T00:00:00.000Z',
      'ShippedDate': '1998-03-19T00:00:00.000Z',
      'Freight': 13.6,
      'ShipName': 'Richter Supermarkt',
      'ShipAddress': 'Starenweg 5',
      'ShipCity': 'Genève',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
      'OrderID': 10932,
      'CustomerID': 'BONAP',
      'OrderDate': '1998-03-06T00:00:00.000Z',

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    'ShippedDate': '1998-03-24T00:00:00.000Z',
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    'ShipAddress': '12, rue des Bouchers',
    'ShipCity': 'Marseille',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10933,
    'CustomerID': 'ISLAT',
    'OrderDate': '1998-03-06T00:00:00.000Z',
    'ShippedDate': '1998-03-16T00:00:00.000Z',
    'Freight': 54.15,
    'ShipName': 'Island Trading',
    'ShipAddress': 'Garden House Crowther Way',
    'ShipCity': 'Cowes',
    'ShipRegion': 'Isle of Wight',
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10934,
    'CustomerID': 'LEHMS',
    'OrderDate': '1998-03-09T00:00:00.000Z',
    'ShippedDate': '1998-03-12T00:00:00.000Z',
    'Freight': 32.01,
    'ShipName': 'Lehmanns Marktstand',
    'ShipAddress': 'Magazinweg 7',
    'ShipCity': 'Frankfurt a.M.',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 10935,
    'CustomerID': 'WELLI',
    'OrderDate': '1998-03-09T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 47.59,
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    'ShipAddress': 'Rua do Mercado, 12',
    'ShipCity': 'Resende',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
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    'Freight': 33.68,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
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      'OrderDate': '1998-03-10T00:00:00.000Z',
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      'Freight': 31.51,
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      'ShipAddress': 'Cerrito 333',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
    {
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      'ShippedDate': '1998-03-16T00:00:00.000Z',
      'Freight': 31.89,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10939,
      'CustomerID': 'MAGAA',
      'OrderDate': '1998-03-10T00:00:00.000Z',
      'ShippedDate': '1998-03-13T00:00:00.000Z',
      'Freight': 76.33,
      'ShipName': 'Magazzini Alimentari Riuniti',
      'ShipAddress': 'Via Ludovico il Moro 22',
      'ShipCity': 'Bergamo',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
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      'ShippedDate': '1998-03-23T00:00:00.000Z',
      'Freight': 19.77,
      'ShipName': 'Bon app',
      'ShipAddress': '12, rue des Bouchers',
      'ShipCity': 'Marseille',
      'ShipRegion': null,
      'ShipCountry': 'France'
    },
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      'CustomerID': 'SAVEA',
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      'Freight': 400.81,
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      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',

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    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
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    'CustomerID': 'BSBEV',
    'OrderDate': '1998-03-11T00:00:00.000Z',
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    'Freight': 2.17,
    'ShipName': 'B\ Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10944,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-03-12T00:00:00.000Z',
    'ShippedDate': '1998-03-13T00:00:00.000Z',
    'Freight': 52.92,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
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    'OrderID': 10945,
    'CustomerID': 'MORGK',
    'OrderDate': '1998-03-12T00:00:00.000Z',
    'ShippedDate': '1998-03-18T00:00:00.000Z',
    'Freight': 10.22,
    'ShipName': 'Morgenstern Gesundkost',
    'ShipAddress': 'Heerstr. 22',
    'ShipCity': 'Leipzig',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'OrderID': 10946,
    'CustomerID': 'VAFFE',
    'OrderDate': '1998-03-12T00:00:00.000Z',
    'ShippedDate': '1998-03-19T00:00:00.000Z',
    'Freight': 27.2,
    'ShipName': 'Vaffeljernet',

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    'ShipCity': 'Århus',
    'ShipRegion': null,
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  },
  {
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    'Freight': 3.26,
    'ShipName': 'B\ Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
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    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
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    'CustomerID': 'BOTTM',
    'OrderDate': '1998-03-13T00:00:00.000Z',
    'ShippedDate': '1998-03-17T00:00:00.000Z',
    'Freight': 74.44,
    'ShipName': 'Bottom-Dollar Markets',
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    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
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    'CustomerID': 'MAGAA',
    'OrderDate': '1998-03-16T00:00:00.000Z',
    'ShippedDate': '1998-03-23T00:00:00.000Z',
    'Freight': 2.5,
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    'ShipAddress': 'Via Ludovico il Moro 22',
    'ShipCity': 'Bergamo',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
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    'CustomerID': 'RICSU',
    'OrderDate': '1998-03-16T00:00:00.000Z',

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    'ShippedDate': '1998-04-07T00:00:00.000Z',
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    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
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    'CustomerID': 'ALFKI',
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    'Freight': 40.42,
    'ShipName': 'Alfred\ Futterkiste',
    'ShipAddress': 'Obere Str. 57',
    'ShipCity': 'Berlin',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
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    'CustomerID': 'AROUT',
    'OrderDate': '1998-03-16T00:00:00.000Z',
    'ShippedDate': '1998-03-25T00:00:00.000Z',
    'Freight': 23.72,
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    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
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    'Freight': 27.91,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
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    'CustomerID': 'FOLKO',
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    'ShippedDate': '1998-03-20T00:00:00.000Z',
    'Freight': 3.26,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  }
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      'Freight': 44.65,
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      'ShipAddress': 'Forsterstr. 57',
      'ShipCity': 'Mannheim',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'HILAA',
      'OrderDate': '1998-03-18T00:00:00.000Z',
      'ShippedDate': '1998-03-27T00:00:00.000Z',
      'Freight': 105.36,
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      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',
      'ShipCountry': 'Venezuela'
    },
    {
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      'CustomerID': 'OCEAN',
      'OrderDate': '1998-03-18T00:00:00.000Z',
      'ShippedDate': '1998-03-27T00:00:00.000Z',
      'Freight': 49.56,
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      'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
      'ShipCity': 'Buenos Aires',
      'ShipRegion': null,
      'ShipCountry': 'Argentina'
    },
    {
      'OrderID': 10959,
      'CustomerID': 'GOURL',
      'OrderDate': '1998-03-18T00:00:00.000Z',
      'ShippedDate': '1998-03-23T00:00:00.000Z',
      'Freight': 4.98,
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      'ShipAddress': 'Av. Brasil, 442',
      'ShipCity': 'Campinas',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
    {
      'OrderID': 10960,
      'CustomerID': 'HILAA',
      'OrderDate': '1998-03-19T00:00:00.000Z',
      'ShippedDate': '1998-04-08T00:00:00.000Z',
      'Freight': 2.08,
      'ShipName': 'HILARION-Abastos',
      'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
      'ShipCity': 'San Cristóbal',
      'ShipRegion': 'Táchira',

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  },
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    'Freight': 104.47,
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    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
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    'CustomerID': 'QUICK',
    'OrderDate': '1998-03-19T00:00:00.000Z',
    'ShippedDate': '1998-03-23T00:00:00.000Z',
    'Freight': 275.79,
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    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'OrderDate': '1998-03-19T00:00:00.000Z',
    'ShippedDate': '1998-03-26T00:00:00.000Z',
    'Freight': 2.7,
    'ShipName': 'Furia Bacalhau e Frutos do Mar',
    'ShipAddress': 'Jardim das rosas n. 32',
    'ShipCity': 'Lisboa',
    'ShipRegion': null,
    'ShipCountry': 'Portugal'
  },
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    'CustomerID': 'SPECB',
    'OrderDate': '1998-03-20T00:00:00.000Z',
    'ShippedDate': '1998-03-24T00:00:00.000Z',
    'Freight': 87.38,
    'ShipName': 'Spécialités du monde',
    'ShipAddress': '25, rue Lauriston',
    'ShipCity': 'Paris',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'OLDWO',
    'OrderDate': '1998-03-20T00:00:00.000Z',
    'ShippedDate': '1998-03-30T00:00:00.000Z',
    'Freight': 144.38,
    'ShipName': 'Old World Delicatessen',

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      'ShipCity': 'Anchorage',
      'ShipRegion': 'AK',
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    },
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      'CustomerID': 'CHOPS',
      'OrderDate': '1998-03-20T00:00:00.000Z',
      'ShippedDate': '1998-04-08T00:00:00.000Z',
      'Freight': 27.19,
      'ShipName': 'Chop-suey Chinese',
      'ShipAddress': 'Hauptstr. 31',
      'ShipCity': 'Bern',
      'ShipRegion': null,
      'ShipCountry': 'Switzerland'
    },
    {
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      'OrderDate': '1998-03-23T00:00:00.000Z',
      'ShippedDate': '1998-04-02T00:00:00.000Z',
      'Freight': 62.22,
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      'ShipAddress': 'Luisenstr. 48',
      'ShipCity': 'Münster',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
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      'CustomerID': 'ERNSH',
      'OrderDate': '1998-03-23T00:00:00.000Z',
      'ShippedDate': '1998-04-01T00:00:00.000Z',
      'Freight': 74.6,
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      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
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      'CustomerID': 'COMMI',
      'OrderDate': '1998-03-23T00:00:00.000Z',
      'ShippedDate': '1998-03-30T00:00:00.000Z',
      'Freight': 0.21,
      'ShipName': 'Comércio Mineiro',
      'ShipAddress': 'Av. dos Lusíadas, 23',
      'ShipCity': 'Sao Paulo',
      'ShipRegion': 'SP',
      'ShipCountry': 'Brazil'
    },
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      'CustomerID': 'BOLID',
      'OrderDate': '1998-03-24T00:00:00.000Z',

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    'ShippedDate': '1998-04-24T00:00:00.000Z',
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    'ShipAddress': 'C/ Araquil, 67',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 10971,
    'CustomerID': 'FRANR',
    'OrderDate': '1998-03-24T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 121.82,
    'ShipName': 'France restauration',
    'ShipAddress': '54, rue Royale',
    'ShipCity': 'Nantes',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 10972,
    'CustomerID': 'LACOR',
    'OrderDate': '1998-03-24T00:00:00.000Z',
    'ShippedDate': '1998-03-26T00:00:00.000Z',
    'Freight': 0.02,
    'ShipName': 'La corne d\'abondance',
    'ShipAddress': '67, avenue de l\'Europe',
    'ShipCity': 'Versailles',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'LACOR',
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    'ShippedDate': '1998-03-27T00:00:00.000Z',
    'Freight': 15.17,
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    'ShipCity': 'Versailles',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
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    'CustomerID': 'SPLIR',
    'OrderDate': '1998-03-25T00:00:00.000Z',
    'ShippedDate': '1998-04-03T00:00:00.000Z',
    'Freight': 12.96,
    'ShipName': 'Split Rail Beer & Ale',
    'ShipAddress': 'P.O. Box 555',
    'ShipCity': 'Lander',
    'ShipRegion': 'WY',
    'ShipCountry': 'USA'
  },
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    'OrderDate': '1998-03-25T00:00:00.000Z',
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    'Freight': 32.27,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10976,
    'CustomerID': 'HILAA',
    'OrderDate': '1998-03-25T00:00:00.000Z',
    'ShippedDate': '1998-04-03T00:00:00.000Z',
    'Freight': 37.97,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'FOLKO',
    'OrderDate': '1998-03-26T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 208.5,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
    'OrderID': 10978,
    'CustomerID': 'MAISD',
    'OrderDate': '1998-03-26T00:00:00.000Z',
    'ShippedDate': '1998-04-23T00:00:00.000Z',
    'Freight': 32.82,
    'ShipName': 'Maison Dewey',
    'ShipAddress': 'Rue Joseph-Bens 532',
    'ShipCity': 'Bruxelles',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
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    'CustomerID': 'ERNSH',
    'OrderDate': '1998-03-26T00:00:00.000Z',
    'ShippedDate': '1998-03-31T00:00:00.000Z',
    'Freight': 353.07,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,

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    'ShipCountry': 'Austria'
  },
  {
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    'CustomerID': 'FOLKO',
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    'ShippedDate': '1998-04-17T00:00:00.000Z',
    'Freight': 1.26,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'HANAR',
    'OrderDate': '1998-03-27T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 193.37,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 10982,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-03-27T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 14.01,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 10983,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-03-27T00:00:00.000Z',
    'ShippedDate': '1998-04-06T00:00:00.000Z',
    'Freight': 657.54,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10984,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-03-30T00:00:00.000Z',
    'ShippedDate': '1998-04-03T00:00:00.000Z',
    'Freight': 211.22,
    'ShipName': 'Save-a-lot Markets',

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    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
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    'CustomerID': 'HUNGO',
    'OrderDate': '1998-03-30T00:00:00.000Z',
    'ShippedDate': '1998-04-02T00:00:00.000Z',
    'Freight': 91.51,
    'ShipName': 'Hungry Owl All-Night Grocers',
    'ShipAddress': '8 Johnstown Road',
    'ShipCity': 'Cork',
    'ShipRegion': 'Co. Cork',
    'ShipCountry': 'Ireland'
  },
  {
    'OrderID': 10986,
    'CustomerID': 'OCEAN',
    'OrderDate': '1998-03-30T00:00:00.000Z',
    'ShippedDate': '1998-04-21T00:00:00.000Z',
    'Freight': 217.86,
    'ShipName': 'Océano Atlántico Ltda.',
    'ShipAddress': 'Ing. Gustavo Moncada 8585 Piso 20-A',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
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    'CustomerID': 'EASTC',
    'OrderDate': '1998-03-31T00:00:00.000Z',
    'ShippedDate': '1998-04-06T00:00:00.000Z',
    'Freight': 185.48,
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    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 10988,
    'CustomerID': 'RATTC',
    'OrderDate': '1998-03-31T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 61.14,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 10989,
    'CustomerID': 'QUEDE',
    'OrderDate': '1998-03-31T00:00:00.000Z',

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      'ShippedDate': '1998-04-02T00:00:00.000Z',
      'Freight': 34.76,
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      'ShipAddress': 'Rua da Panificadora, 12',
      'ShipCity': 'Rio de Janeiro',
      'ShipRegion': 'RJ',
      'ShipCountry': 'Brazil'
    },
    {
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      'CustomerID': 'ERNSH',
      'OrderDate': '1998-04-01T00:00:00.000Z',
      'ShippedDate': '1998-04-07T00:00:00.000Z',
      'Freight': 117.61,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
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      'CustomerID': 'QUICK',
      'OrderDate': '1998-04-01T00:00:00.000Z',
      'ShippedDate': '1998-04-07T00:00:00.000Z',
      'Freight': 38.51,
      'ShipName': 'QUICK-Stop',
      'ShipAddress': 'Taucherstraße 10',
      'ShipCity': 'Cunewalde',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 10992,
      'CustomerID': 'THEBI',
      'OrderDate': '1998-04-01T00:00:00.000Z',
      'ShippedDate': '1998-04-03T00:00:00.000Z',
      'Freight': 4.27,
      'ShipName': 'The Big Cheese',
      'ShipAddress': '89 Jefferson Way Suite 2',
      'ShipCity': 'Portland',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
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      'OrderDate': '1998-04-01T00:00:00.000Z',
      'ShippedDate': '1998-04-10T00:00:00.000Z',
      'Freight': 8.81,
      'ShipName': 'Folk och fä HB',
      'ShipAddress': 'Åkergatan 24',
      'ShipCity': 'Bräcke',
      'ShipRegion': null,
      'ShipCountry': 'Sweden'
    }
  ],
  {

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    'Freight': 65.53,
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    'ShipAddress': 'Smagsloget 45',
    'ShipCity': 'Århus',
    'ShipRegion': null,
    'ShipCountry': 'Denmark'
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    'CustomerID': 'PERIC',
    'OrderDate': '1998-04-02T00:00:00.000Z',
    'ShippedDate': '1998-04-06T00:00:00.000Z',
    'Freight': 46,
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    'ShipAddress': 'Calle Dr. Jorge Cash 321',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {
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    'CustomerID': 'QUICK',
    'OrderDate': '1998-04-02T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 1.12,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
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    'CustomerID': 'LILAS',
    'OrderDate': '1998-04-03T00:00:00.000Z',
    'ShippedDate': '1998-04-13T00:00:00.000Z',
    'Freight': 73.91,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'WOLZA',
    'OrderDate': '1998-04-03T00:00:00.000Z',
    'ShippedDate': '1998-04-17T00:00:00.000Z',
    'Freight': 20.31,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
  }

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  },
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    'CustomerID': 'OTTIK',
    'OrderDate': '1998-04-03T00:00:00.000Z',
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    'Freight': 96.35,
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    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11000,
    'CustomerID': 'RATTC',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-14T00:00:00.000Z',
    'Freight': 55.12,
    'ShipName': 'Rattlesnake Canyon Grocery',
    'ShipAddress': '2817 Milton Dr.',
    'ShipCity': 'Albuquerque',
    'ShipRegion': 'NM',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11001,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-14T00:00:00.000Z',
    'Freight': 197.3,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {
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    'CustomerID': 'SAVEA',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-16T00:00:00.000Z',
    'Freight': 141.16,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
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    'CustomerID': 'THECR',
    'OrderDate': '1998-04-06T00:00:00.000Z',
    'ShippedDate': '1998-04-08T00:00:00.000Z',
    'Freight': 14.91,
    'ShipName': 'The Cracker Box',

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      'ShipCity': 'Butte',
      'ShipRegion': 'MT',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'MAISD',
      'OrderDate': '1998-04-07T00:00:00.000Z',
      'ShippedDate': '1998-04-20T00:00:00.000Z',
      'Freight': 44.84,
      'ShipName': 'Maison Dewey',
      'ShipAddress': 'Rue Joseph-Bens 532',
      'ShipCity': 'Bruxelles',
      'ShipRegion': null,
      'ShipCountry': 'Belgium'
    },
    {
      'OrderID': 11005,
      'CustomerID': 'WILMK',
      'OrderDate': '1998-04-07T00:00:00.000Z',
      'ShippedDate': '1998-04-10T00:00:00.000Z',
      'Freight': 0.75,
      'ShipName': 'Wilman Kala',
      'ShipAddress': 'Keskuskatu 45',
      'ShipCity': 'Helsinki',
      'ShipRegion': null,
      'ShipCountry': 'Finland'
    },
    {
      'OrderID': 11006,
      'CustomerID': 'GREAL',
      'OrderDate': '1998-04-07T00:00:00.000Z',
      'ShippedDate': '1998-04-15T00:00:00.000Z',
      'Freight': 25.19,
      'ShipName': 'Great Lakes Food Market',
      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
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      'CustomerID': 'PRINI',
      'OrderDate': '1998-04-08T00:00:00.000Z',
      'ShippedDate': '1998-04-13T00:00:00.000Z',
      'Freight': 202.24,
      'ShipName': 'Princesa Isabel Vinhos',
      'ShipAddress': 'Estrada da saúde n. 58',
      'ShipCity': 'Lisboa',
      'ShipRegion': null,
      'ShipCountry': 'Portugal'
    },
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      'CustomerID': 'ERNSH',
      'OrderDate': '1998-04-08T00:00:00.000Z',

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    'ShippedDate': null,
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    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
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    'CustomerID': 'GODOS',
    'OrderDate': '1998-04-08T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 59.11,
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    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 11010,
    'CustomerID': 'REGGC',
    'OrderDate': '1998-04-09T00:00:00.000Z',
    'ShippedDate': '1998-04-21T00:00:00.000Z',
    'Freight': 28.71,
    'ShipName': 'Reggiani Caseifici',
    'ShipAddress': 'Strada Provinciale 124',
    'ShipCity': 'Reggio Emilia',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
    'OrderID': 11011,
    'CustomerID': 'ALFKI',
    'OrderDate': '1998-04-09T00:00:00.000Z',
    'ShippedDate': '1998-04-13T00:00:00.000Z',
    'Freight': 1.21,
    'ShipName': 'Alfred\ Futterkiste',
    'ShipAddress': 'Obere Str. 57',
    'ShipCity': 'Berlin',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11012,
    'CustomerID': 'FRANK',
    'OrderDate': '1998-04-09T00:00:00.000Z',
    'ShippedDate': '1998-04-17T00:00:00.000Z',
    'Freight': 242.95,
    'ShipName': 'Frankenversand',
    'ShipAddress': 'Berliner Platz 43',
    'ShipCity': 'München',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {

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    'OrderID': 11013,
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    'OrderDate': '1998-04-09T00:00:00.000Z',
    'ShippedDate': '1998-04-10T00:00:00.000Z',
    'Freight': 32.99,
    'ShipName': 'Romero y tomillo',
    'ShipAddress': 'Gran Vía, 1',
    'ShipCity': 'Madrid',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 11014,
    'CustomerID': 'LINOD',
    'OrderDate': '1998-04-10T00:00:00.000Z',
    'ShippedDate': '1998-04-15T00:00:00.000Z',
    'Freight': 23.6,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
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    'CustomerID': 'SANTG',
    'OrderDate': '1998-04-10T00:00:00.000Z',
    'ShippedDate': '1998-04-20T00:00:00.000Z',
    'Freight': 4.62,
    'ShipName': 'Santé Gourmet',
    'ShipAddress': 'Erling Skakkes gate 78',
    'ShipCity': 'Stavern',
    'ShipRegion': null,
    'ShipCountry': 'Norway'
  },
  {
    'OrderID': 11016,
    'CustomerID': 'AROUT',
    'OrderDate': '1998-04-10T00:00:00.000Z',
    'ShippedDate': '1998-04-13T00:00:00.000Z',
    'Freight': 33.8,
    'ShipName': 'Around the Horn',
    'ShipAddress': 'Brook Farm Stratford St. Mary',
    'ShipCity': 'Colchester',
    'ShipRegion': 'Essex',
    'ShipCountry': 'UK'
  },
  {
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    'CustomerID': 'ERNSH',
    'OrderDate': '1998-04-13T00:00:00.000Z',
    'ShippedDate': '1998-04-20T00:00:00.000Z',
    'Freight': 754.26,
    'ShipName': 'Ernst Handel',
    'ShipAddress': 'Kirchgasse 6',
    'ShipCity': 'Graz',
    'ShipRegion': null,

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    'ShipCountry': 'Austria'
  },
  {
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    'CustomerID': 'LONEP',
    'OrderDate': '1998-04-13T00:00:00.000Z',
    'ShippedDate': '1998-04-16T00:00:00.000Z',
    'Freight': 11.65,
    'ShipName': 'Lonesome Pine Restaurant',
    'ShipAddress': '89 Chiaroscuro Rd.',
    'ShipCity': 'Portland',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11019,
    'CustomerID': 'RANCH',
    'OrderDate': '1998-04-13T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 3.17,
    'ShipName': 'Rancho grande',
    'ShipAddress': 'Av. del Libertador 900',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 11020,
    'CustomerID': 'OTTIK',
    'OrderDate': '1998-04-14T00:00:00.000Z',
    'ShippedDate': '1998-04-16T00:00:00.000Z',
    'Freight': 43.3,
    'ShipName': 'Ottilies Käseladen',
    'ShipAddress': 'Mehrheimerstr. 369',
    'ShipCity': 'Köln',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11021,
    'CustomerID': 'QUICK',
    'OrderDate': '1998-04-14T00:00:00.000Z',
    'ShippedDate': '1998-04-21T00:00:00.000Z',
    'Freight': 297.18,
    'ShipName': 'QUICK-Stop',
    'ShipAddress': 'Taucherstraße 10',
    'ShipCity': 'Cunewalde',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11022,
    'CustomerID': 'HANAR',
    'OrderDate': '1998-04-14T00:00:00.000Z',
    'ShippedDate': '1998-05-04T00:00:00.000Z',
    'Freight': 6.27,
    'ShipName': 'Hanari Carnes',

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    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11023,
    'CustomerID': 'BSBEV',
    'OrderDate': '1998-04-14T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 123.83,
    'ShipName': 'B\ Beverages',
    'ShipAddress': 'Fauntleroy Circus',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11024,
    'CustomerID': 'EASTC',
    'OrderDate': '1998-04-15T00:00:00.000Z',
    'ShippedDate': '1998-04-20T00:00:00.000Z',
    'Freight': 74.36,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11025,
    'CustomerID': 'WARTH',
    'OrderDate': '1998-04-15T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 29.17,
    'ShipName': 'Wartian Herkku',
    'ShipAddress': 'Torikatu 38',
    'ShipCity': 'Oulu',
    'ShipRegion': null,
    'ShipCountry': 'Finland'
  },
  {
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    'CustomerID': 'FRANS',
    'OrderDate': '1998-04-15T00:00:00.000Z',
    'ShippedDate': '1998-04-28T00:00:00.000Z',
    'Freight': 47.09,
    'ShipName': 'Franchi S.p.A.',
    'ShipAddress': 'Via Monte Bianco 34',
    'ShipCity': 'Torino',
    'ShipRegion': null,
    'ShipCountry': 'Italy'
  },
  {
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    'CustomerID': 'BOTTM',
    'OrderDate': '1998-04-16T00:00:00.000Z',

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    'ShippedDate': '1998-04-20T00:00:00.000Z',
    'Freight': 52.52,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 11028,
    'CustomerID': 'KOENE',
    'OrderDate': '1998-04-16T00:00:00.000Z',
    'ShippedDate': '1998-04-22T00:00:00.000Z',
    'Freight': 29.59,
    'ShipName': 'Königlich Essen',
    'ShipAddress': 'Maubelstr. 90',
    'ShipCity': 'Brandenburg',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11029,
    'CustomerID': 'CHOPS',
    'OrderDate': '1998-04-16T00:00:00.000Z',
    'ShippedDate': '1998-04-27T00:00:00.000Z',
    'Freight': 47.84,
    'ShipName': 'Chop-suey Chinese',
    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 11030,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-04-17T00:00:00.000Z',
    'ShippedDate': '1998-04-27T00:00:00.000Z',
    'Freight': 830.75,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11031,
    'CustomerID': 'SAVEA',
    'OrderDate': '1998-04-17T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 227.22,
    'ShipName': 'Save-a-lot Markets',
    'ShipAddress': '187 Suffolk Ln.',
    'ShipCity': 'Boise',
    'ShipRegion': 'ID',
    'ShipCountry': 'USA'
  },
  {

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    'OrderID': 11032,
    'CustomerID': 'WHITC',
    'OrderDate': '1998-04-17T00:00:00.000Z',
    'ShippedDate': '1998-04-23T00:00:00.000Z',
    'Freight': 606.19,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11033,
    'CustomerID': 'RICSU',
    'OrderDate': '1998-04-17T00:00:00.000Z',
    'ShippedDate': '1998-04-23T00:00:00.000Z',
    'Freight': 84.74,
    'ShipName': 'Richter Supermarkt',
    'ShipAddress': 'Starenweg 5',
    'ShipCity': 'Genève',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 11034,
    'CustomerID': 'OLDWO',
    'OrderDate': '1998-04-20T00:00:00.000Z',
    'ShippedDate': '1998-04-27T00:00:00.000Z',
    'Freight': 40.32,
    'ShipName': 'Old World Delicatessen',
    'ShipAddress': '2743 Bering St.',
    'ShipCity': 'Anchorage',
    'ShipRegion': 'AK',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11035,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-04-20T00:00:00.000Z',
    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 0.17,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 11036,
    'CustomerID': 'DRACD',
    'OrderDate': '1998-04-20T00:00:00.000Z',
    'ShippedDate': '1998-04-22T00:00:00.000Z',
    'Freight': 149.47,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,

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    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11037,
    'CustomerID': 'GODOS',
    'OrderDate': '1998-04-21T00:00:00.000Z',
    'ShippedDate': '1998-04-27T00:00:00.000Z',
    'Freight': 3.2,
    'ShipName': 'Godos Cocina Típica',
    'ShipAddress': 'C/ Romero, 33',
    'ShipCity': 'Sevilla',
    'ShipRegion': null,
    'ShipCountry': 'Spain'
  },
  {
    'OrderID': 11038,
    'CustomerID': 'SUPRD',
    'OrderDate': '1998-04-21T00:00:00.000Z',
    'ShippedDate': '1998-04-30T00:00:00.000Z',
    'Freight': 29.59,
    'ShipName': 'Suprêmes délices',
    'ShipAddress': 'Boulevard Tirou, 255',
    'ShipCity': 'Charleroi',
    'ShipRegion': null,
    'ShipCountry': 'Belgium'
  },
  {
    'OrderID': 11039,
    'CustomerID': 'LINOD',
    'OrderDate': '1998-04-21T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 65,
    'ShipName': 'LINO-Delicateses',
    'ShipAddress': 'Ave. 5 de Mayo Porlamar',
    'ShipCity': 'I. de Margarita',
    'ShipRegion': 'Nueva Esparta',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 11040,
    'CustomerID': 'GREAL',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 18.84,
    'ShipName': 'Great Lakes Food Market',
    'ShipAddress': '2732 Baker Blvd.',
    'ShipCity': 'Eugene',
    'ShipRegion': 'OR',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11041,
    'CustomerID': 'CHOPS',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': '1998-04-28T00:00:00.000Z',
    'Freight': 48.22,
    'ShipName': 'Chop-suey Chinese',

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    'ShipAddress': 'Hauptstr. 31',
    'ShipCity': 'Bern',
    'ShipRegion': null,
    'ShipCountry': 'Switzerland'
  },
  {
    'OrderID': 11042,
    'CustomerID': 'COMMI',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 29.99,
    'ShipName': 'Comércio Mineiro',
    'ShipAddress': 'Av. dos Lusíadas, 23',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11043,
    'CustomerID': 'SPECB',
    'OrderDate': '1998-04-22T00:00:00.000Z',
    'ShippedDate': '1998-04-29T00:00:00.000Z',
    'Freight': 8.8,
    'ShipName': 'Spécialités du monde',
    'ShipAddress': '25, rue Lauriston',
    'ShipCity': 'Paris',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 11044,
    'CustomerID': 'WOLZA',
    'OrderDate': '1998-04-23T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 8.72,
    'ShipName': 'Wolski Zajazd',
    'ShipAddress': 'ul. Filtrowa 68',
    'ShipCity': 'Warszawa',
    'ShipRegion': null,
    'ShipCountry': 'Poland'
  },
  {
    'OrderID': 11045,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-04-23T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 70.58,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 11046,
    'CustomerID': 'WANDK',
    'OrderDate': '1998-04-23T00:00:00.000Z',

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    'ShippedDate': '1998-04-24T00:00:00.000Z',
    'Freight': 71.64,
    'ShipName': 'Die Wandernde Kuh',
    'ShipAddress': 'Adenauerallee 900',
    'ShipCity': 'Stuttgart',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11047,
    'CustomerID': 'EASTC',
    'OrderDate': '1998-04-24T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 46.62,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11048,
    'CustomerID': 'BOTTM',
    'OrderDate': '1998-04-24T00:00:00.000Z',
    'ShippedDate': '1998-04-30T00:00:00.000Z',
    'Freight': 24.12,
    'ShipName': 'Bottom-Dollar Markets',
    'ShipAddress': '23 Tsawassen Blvd.',
    'ShipCity': 'Tsawassen',
    'ShipRegion': 'BC',
    'ShipCountry': 'Canada'
  },
  {
    'OrderID': 11049,
    'CustomerID': 'GOURL',
    'OrderDate': '1998-04-24T00:00:00.000Z',
    'ShippedDate': '1998-05-04T00:00:00.000Z',
    'Freight': 8.34,
    'ShipName': 'Gourmet Lanchonetes',
    'ShipAddress': 'Av. Brasil, 442',
    'ShipCity': 'Campinas',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11050,
    'CustomerID': 'FOLKO',
    'OrderDate': '1998-04-27T00:00:00.000Z',
    'ShippedDate': '1998-05-05T00:00:00.000Z',
    'Freight': 59.41,
    'ShipName': 'Folk och fä HB',
    'ShipAddress': 'Åkergatan 24',
    'ShipCity': 'Bräcke',
    'ShipRegion': null,
    'ShipCountry': 'Sweden'
  },
  {

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    'OrderID': 11051,
    'CustomerID': 'LAMAI',
    'OrderDate': '1998-04-27T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 2.79,
    'ShipName': 'La maison d\'Asie',
    'ShipAddress': '1 rue Alsace-Lorraine',
    'ShipCity': 'Toulouse',
    'ShipRegion': null,
    'ShipCountry': 'France'
  },
  {
    'OrderID': 11052,
    'CustomerID': 'HANAR',
    'OrderDate': '1998-04-27T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 67.26,
    'ShipName': 'Hanari Carnes',
    'ShipAddress': 'Rua do Paço, 67',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11053,
    'CustomerID': 'PICCO',
    'OrderDate': '1998-04-27T00:00:00.000Z',
    'ShippedDate': '1998-04-29T00:00:00.000Z',
    'Freight': 53.05,
    'ShipName': 'Piccolo und mehr',
    'ShipAddress': 'Geislweg 14',
    'ShipCity': 'Salzburg',
    'ShipRegion': null,
    'ShipCountry': 'Austria'
  },
  {
    'OrderID': 11054,
    'CustomerID': 'CACTU',
    'OrderDate': '1998-04-28T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 0.33,
    'ShipName': 'Cactus Comidas para llevar',
    'ShipAddress': 'Cerrito 333',
    'ShipCity': 'Buenos Aires',
    'ShipRegion': null,
    'ShipCountry': 'Argentina'
  },
  {
    'OrderID': 11055,
    'CustomerID': 'HILAA',
    'OrderDate': '1998-04-28T00:00:00.000Z',
    'ShippedDate': '1998-05-05T00:00:00.000Z',
    'Freight': 120.92,
    'ShipName': 'HILARION-Abastos',
    'ShipAddress': 'Carrera 22 con Ave. Carlos Soublette #8-35',
    'ShipCity': 'San Cristóbal',
    'ShipRegion': 'Táchira',
  }

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    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 11056,
    'CustomerID': 'EASTC',
    'OrderDate': '1998-04-28T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 278.96,
    'ShipName': 'Eastern Connection',
    'ShipAddress': '35 King George',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11057,
    'CustomerID': 'NORTS',
    'OrderDate': '1998-04-29T00:00:00.000Z',
    'ShippedDate': '1998-05-01T00:00:00.000Z',
    'Freight': 4.13,
    'ShipName': 'North/South',
    'ShipAddress': 'South House 300 Queensbridge',
    'ShipCity': 'London',
    'ShipRegion': null,
    'ShipCountry': 'UK'
  },
  {
    'OrderID': 11058,
    'CustomerID': 'BLAUS',
    'OrderDate': '1998-04-29T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 31.14,
    'ShipName': 'Blauer See Delikatessen',
    'ShipAddress': 'Forsterstr. 57',
    'ShipCity': 'Mannheim',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11059,
    'CustomerID': 'RICAR',
    'OrderDate': '1998-04-29T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 85.8,
    'ShipName': 'Ricardo Adocicados',
    'ShipAddress': 'Av. Copacabana, 267',
    'ShipCity': 'Rio de Janeiro',
    'ShipRegion': 'RJ',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11060,
    'CustomerID': 'FRANS',
    'OrderDate': '1998-04-30T00:00:00.000Z',
    'ShippedDate': '1998-05-04T00:00:00.000Z',
    'Freight': 10.98,
    'ShipName': 'Franchi S.p.A.',

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      'ShipAddress': 'Via Monte Bianco 34',
      'ShipCity': 'Torino',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 11061,
      'CustomerID': 'GREAL',
      'OrderDate': '1998-04-30T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 14.01,
      'ShipName': 'Great Lakes Food Market',
      'ShipAddress': '2732 Baker Blvd.',
      'ShipCity': 'Eugene',
      'ShipRegion': 'OR',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 11062,
      'CustomerID': 'REGGC',
      'OrderDate': '1998-04-30T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 29.93,
      'ShipName': 'Reggiani Caseifici',
      'ShipAddress': 'Strada Provinciale 124',
      'ShipCity': 'Reggio Emilia',
      'ShipRegion': null,
      'ShipCountry': 'Italy'
    },
    {
      'OrderID': 11063,
      'CustomerID': 'HUNGO',
      'OrderDate': '1998-04-30T00:00:00.000Z',
      'ShippedDate': '1998-05-06T00:00:00.000Z',
      'Freight': 81.73,
      'ShipName': 'Hungry Owl All-Night Grocers',
      'ShipAddress': '8 Johnstown Road',
      'ShipCity': 'Cork',
      'ShipRegion': 'Co. Cork',
      'ShipCountry': 'Ireland'
    },
    {
      'OrderID': 11064,
      'CustomerID': 'SAVEA',
      'OrderDate': '1998-05-01T00:00:00.000Z',
      'ShippedDate': '1998-05-04T00:00:00.000Z',
      'Freight': 30.09,
      'ShipName': 'Save-a-lot Markets',
      'ShipAddress': '187 Suffolk Ln.',
      'ShipCity': 'Boise',
      'ShipRegion': 'ID',
      'ShipCountry': 'USA'
    },
    {
      'OrderID': 11065,
      'CustomerID': 'LILAS',
      'OrderDate': '1998-05-01T00:00:00.000Z',

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    'ShippedDate': null,
    'Freight': 12.91,
    'ShipName': 'LILA-Supermercado',
    'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
    'ShipCity': 'Barquisimeto',
    'ShipRegion': 'Lara',
    'ShipCountry': 'Venezuela'
  },
  {
    'OrderID': 11066,
    'CustomerID': 'WHITC',
    'OrderDate': '1998-05-01T00:00:00.000Z',
    'ShippedDate': '1998-05-04T00:00:00.000Z',
    'Freight': 44.72,
    'ShipName': 'White Clover Markets',
    'ShipAddress': '1029 - 12th Ave. S.',
    'ShipCity': 'Seattle',
    'ShipRegion': 'WA',
    'ShipCountry': 'USA'
  },
  {
    'OrderID': 11067,
    'CustomerID': 'DRACD',
    'OrderDate': '1998-05-04T00:00:00.000Z',
    'ShippedDate': '1998-05-06T00:00:00.000Z',
    'Freight': 7.98,
    'ShipName': 'Drachenblut Delikatessen',
    'ShipAddress': 'Walserweg 21',
    'ShipCity': 'Aachen',
    'ShipRegion': null,
    'ShipCountry': 'Germany'
  },
  {
    'OrderID': 11068,
    'CustomerID': 'QUEEN',
    'OrderDate': '1998-05-04T00:00:00.000Z',
    'ShippedDate': null,
    'Freight': 81.75,
    'ShipName': 'Queen Cozinha',
    'ShipAddress': 'Alameda dos Canários, 891',
    'ShipCity': 'Sao Paulo',
    'ShipRegion': 'SP',
    'ShipCountry': 'Brazil'
  },
  {
    'OrderID': 11069,
    'CustomerID': 'TORTU',
    'OrderDate': '1998-05-04T00:00:00.000Z',
    'ShippedDate': '1998-05-06T00:00:00.000Z',
    'Freight': 15.67,
    'ShipName': 'Tortuga Restaurante',
    'ShipAddress': 'Avda. Azteca 123',
    'ShipCity': 'México D.F.',
    'ShipRegion': null,
    'ShipCountry': 'Mexico'
  },
  {

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      'OrderID': 11070,
      'CustomerID': 'LEHMS',
      'OrderDate': '1998-05-05T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 136,
      'ShipName': 'Lehmanns Marktstand',
      'ShipAddress': 'Magazinweg 7',
      'ShipCity': 'Frankfurt a.M.',
      'ShipRegion': null,
      'ShipCountry': 'Germany'
    },
    {
      'OrderID': 11071,
      'CustomerID': 'LILAS',
      'OrderDate': '1998-05-05T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 0.93,
      'ShipName': 'LILA-Supermercado',
      'ShipAddress': 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo',
      'ShipCity': 'Barquisimeto',
      'ShipRegion': 'Lara',
      'ShipCountry': 'Venezuela'
    },
    {
      'OrderID': 11072,
      'CustomerID': 'ERNSH',
      'OrderDate': '1998-05-05T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 258.64,
      'ShipName': 'Ernst Handel',
      'ShipAddress': 'Kirchgasse 6',
      'ShipCity': 'Graz',
      'ShipRegion': null,
      'ShipCountry': 'Austria'
    },
    {
      'OrderID': 11073,
      'CustomerID': 'PERIC',
      'OrderDate': '1998-05-05T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 24.95,
      'ShipName': 'Pericles Comidas clásicas',
      'ShipAddress': 'Calle Dr. Jorge Cash 321',
      'ShipCity': 'México D.F.',
      'ShipRegion': null,
      'ShipCountry': 'Mexico'
    },
    {
      'OrderID': 11074,
      'CustomerID': 'SIMOB',
      'OrderDate': '1998-05-06T00:00:00.000Z',
      'ShippedDate': null,
      'Freight': 18.44,
      'ShipName': 'Simons bistro',
      'ShipAddress': 'Vinbæltet 34',
      'ShipCity': 'Kobenhavn',
      'ShipRegion': null,

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        'ShipCountry': 'Denmark'
    },
    {
        'OrderID': 11075,
        'CustomerID': 'RICSU',
        'OrderDate': '1998-05-06T00:00:00.000Z',
        'ShippedDate': null,
        'Freight': 6.19,
        'ShipName': 'Richter Supermarkt',
        'ShipAddress': 'Starenweg 5',
        'ShipCity': 'Genève',
        'ShipRegion': null,
        'ShipCountry': 'Switzerland'
    },
    {
        'OrderID': 11076,
        'CustomerID': 'BONAP',
        'OrderDate': '1998-05-06T00:00:00.000Z',
        'ShippedDate': null,
        'Freight': 38.28,
        'ShipName': 'Bon app',
        'ShipAddress': '12, rue des Bouchers',
        'ShipCity': 'Marseille',
        'ShipRegion': null,
        'ShipCountry': 'France'
    },
    {
        'OrderID': 11077,
        'CustomerID': 'RATTC',
        'OrderDate': '1998-05-06T00:00:00.000Z',
        'ShippedDate': null,
        'Freight': 8.53,
        'ShipName': 'Rattlesnake Canyon Grocery',
        'ShipAddress': '2817 Milton Dr.',
        'ShipCity': 'Albuquerque',
        'ShipRegion': 'NM',
        'ShipCountry': 'USA'
    }
]);
export const orderData: Object[] = JSON.parse(stringData, (field: any,
value: any) => {
    let dupValue: any = value;
    if (typeof value === 'string' && /^(\\d{4}\\-\\d\\d\\-\\d\\d([tT][\\d:\\.]*){1})([zZ]|([+\\-])(\\d\\d)?(\\d\\d)?$/).test(value)) {
        let arr: any = dupValue.split(/^[^0-9]/);
        let arg: any = parseInt(arr[4], 10);
        let arg1: any = parseInt(arr[5], 10);
        value = new Date(parseInt(arr[0], 10), parseInt(arr[1], 10) - 1,
parseInt(arr[2], 10), parseInt(arr[3], 10), arg, arg1);
    }
    return value;
});
export var ProjectsData = [
    { Project: "Villa", Locality: "Los Angeles", Duration: 120, Gender:
"Male", EstimateCost: 35.8,
        workStatus: [

```

```

        {Project: "Construction", Locality: "Los Angeles",
Gender: "Male", Duration: 50, EstimateCost: 20.4,
        startDate: new Date("06-07-2018"),
AssignedTo: "Nick Jones",
        AssignedContactNumber: "+1903333",
ProjectDone: 40, ProjectStatus: "Active" },
        {Project: "Painting", Locality: "Los Angeles",
Gender: "Male", Duration: 25, EstimateCost: 5.2,
        startDate: new Date("11-25-2018"),
AssignedTo: "Nick Jones",
        AssignedContactNumber: "+1903333",
ProjectDone: 10, ProjectStatus: "InActive" },
        {Project: "Electricals", Locality: "Los Angeles",
Gender: "Male", Duration: 15, EstimateCost: 3.1,
        startDate: new Date("10-03-2018"),
AssignedTo: "Nick Jones",
        AssignedContactNumber: "+1903333",
ProjectDone: 90, ProjectStatus: "Active" },
        {Project: "Interior Designs", Locality: "Los
Angeles", Gender: "Male", Duration: 30, EstimateCost: 2.1,
        startDate: new Date("10-23-2018"),
AssignedTo: "Nick Jones",
        AssignedContactNumber: "+1903333",
ProjectDone: 10, ProjectStatus: "InActive" },
    ],
    startDate: new Date("06-07-2018"), AssignedTo: "Nick Jones",
AssignedContactNumber: "+1903333", ProjectDone: 60, ProjectStatus: "Active"
},
    { Project: "Apartment", Locality: "Boston", Duration: 250,
EstimateCost: 80.55, Gender: "Female",
        workStatus: [
            {Project: "Construction", Locality: "Boston",
Duration: 110, Gender: "Female", EstimateCost: 80.55,
            startDate: new Date("08-25-2018"),
AssignedTo: "Johan",
            AssignedContactNumber: "+196088",
ProjectDone: 90, ProjectStatus: "Active" },
            {Project: "Painting", Locality: "Boston", Duration:
60, EstimateCost: 55.32, Gender: "Female",
            startDate: new Date("12-20-2018"),
AssignedTo: "Johan",
            AssignedContactNumber: "+196088",
ProjectDone: 0, ProjectStatus: "InActive" },
            {Project: "Electricals", Locality: "Boston",
Duration: 40, EstimateCost: 20.23, Gender: "Female",
            startDate: new Date("01-26-2019"),
AssignedTo: "Johan",
            AssignedContactNumber: "+196088",
ProjectDone: 40, ProjectStatus: "Active" },
            {Project: "Interior Designs", Locality: "Boston",
Duration: 40, EstimateCost: 5.0, Gender: "Female",
            startDate: new Date("02-07-2019"),
AssignedTo: "Johan",
            AssignedContactNumber: "+196088",
ProjectDone: 10, ProjectStatus: "InActive" },
        ],
    ],

```

```

        StartDate: new Date("08-25-2018"), AssignedTo: "Johan",
        AssignedContactNumber: "+196088", ProjectDone: 55, ProjectStatus: "Active" }
    ]
    export var treeGridDataSource = [
        {
            'Name': 'Windows',
            'DateModified': new Date('06/26/2017'),
            'Type': 'File Folder',
            'DateCreated': new Date('06/16/2017'),
            'Children': [
                {
                    'Name': 'Users',
                    'DateModified': new Date('06/26/2017'),
                    'Type': 'File Folder',
                    'DateCreated': new Date('06/16/2017'),
                    'Children': [
                        {
                            'Name': 'Public',
                            'DateModified': new Date('06/26/2017'),
                            'Type': 'File Folder',
                            'DateCreated': new Date('06/16/2017'),
                            'Children': [
                                {
                                    'Name': 'Documents ',
                                    'DateModified': new Date('06/26/2017'),
                                    'Type': 'File Folder',
                                    'DateCreated': new Date('06/16/2017'),
                                    'Children': [
                                        { 'Name': 'Document 1', 'DateModified':
new Date('06/26/2017'), 'Type': 'HTML document', 'DateCreated': new
Date('06/16/2017'), },
                                        { 'Name': 'Document 2', 'DateModified':
new Date('06/26/2017'), 'Type': 'HTML document', 'DateCreated':new Date(
'06/16/2017'), },
                                        { 'Name': 'Document 3', 'DateModified':
new Date('06/26/2017'), 'Type': 'HTML document', 'DateCreated': new
Date('06/16/2017'), }
                                    ]
                                }
                            ]
                        }
                    ]
                }
            ]
        }
    ];
    export let sampleData2: any[] = [];
    export function dataSource1(): void {
        for (let i: number = 1; i < 500; i++)
        {
            sampleData2.push({
                taskID: i,
                taskName: 'Implementation Phase',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
            });
        }
    }
}

```

```

        approved: false,
        duration: 11,
        subtasks: [
            {
                taskID: ++i,
                taskName: 'Phase 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/28/2017'),
                priority: 'High',
                approved: false,
                duration: 12,
                subtasks: [{
                    taskID: ++i,
                    taskName: 'Implementation Module 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/28/2017'),
                    priority: 'Critical',
                    approved: false,
                    duration: 12,
                }]
            }
        ]
    })
})

export var projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'),
      'EndDate': new Date('02/27/2017'), 'Duration': 3, 'Progress': '40',
      'Priority': 'Normal' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'),
      'EndDate': new Date('02/27/2017'), 'Duration': 4, 'Progress': '40',
      'parentID': 1, 'Priority': 'Low' },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'),
      'EndDate': new Date('02/27/2017'), 'Duration': 2, 'Progress': '40',
      'parentID': 2, 'Priority': 'Normal' },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'),
      'EndDate': new Date('02/27/2017'), 'Duration': 2, 'Progress': '40',
      'parentID': 1, 'Priority': 'Low' },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'),
      'EndDate': new Date('03/18/2017'), 'Duration': 6, 'Progress': '40',
      'Priority': 'Normal' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'),
      'EndDate': new Date('03/06/2017'), 'Duration': 11, 'Progress': '40',
      'parentID': 5, 'Priority': 'High' },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'),
      'EndDate': new Date('03/06/2017'), 'Duration': 7, 'Progress': '40',
      'parentID': 5, 'Priority': 'Critical' },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'),

```

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    'EndDate': new Date('03/06/2017'), 'Duration': 10, 'Progress': '40',
    'parentID': 5, 'Priority': 'Breaker' },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'),
    'EndDate': new Date('03/06/2017'), 'Duration': 15, 'Progress': '40',
    'parentID': 5, 'Priority': 'High' },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'),
    'EndDate': new Date('03/13/2017'), 'Duration': 17, 'Progress': '40',
    'Priority': 'Breaker' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'),
    'EndDate': new Date('03/13/2017'), 'Duration': 0, 'Progress': '40',
    'parentID': 10, 'Priority': 'Low' },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'),
    'EndDate': new Date('03/13/2017'), 'Duration': 10, 'Progress': '40',
    'parentID': 10, 'Priority': 'Breaker' },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'),
    'EndDate': new Date('03/13/2017'), 'Duration': 11, 'Progress': '40',
    'parentID': 10, 'Priority': 'Normal' },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'),
    'EndDate': new Date('03/13/2017'), 'Duration': 1, 'Progress': '40',
    'parentID': 10, 'Priority': 'Normal' },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'),
    'EndDate': new Date('03/13/2017'), 'Duration': 14, 'Progress': '40',
    'parentID': 10, 'Priority': 'Critical' }
];
export var sampleData = [

    {
        taskID: 1000,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 1001,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 1002, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4, progress:
'50', priority: 'Normal', approved: true },
            ]
        }],
    },

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        { taskID: 1003, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4, progress:
'50', priority: 'Critical', approved: true },
        { taskID: 1004, taskName: 'Testing', startDate: new
Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
        { taskID: 1005, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2, progress:
'0', priority: 'Low', approved: false },
        { taskID: 1006, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: true },
        { taskID: 1007, taskName: 'Phase 2 complete', startDate: new
Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0, progress:
'50', priority: 'Normal', approved: false }
    ]
  }
}
];
export var templateData = [{
  'Name': 'Robert King',
  'FullName': 'Robert King',
  'Designation': 'Chief Executive Officer',
  'EmployeeID': 'EMP001',
  'Address': '507 - 20th Ave. E.Apt. 2A, Seattle',
  'Contact': '(206) 555-9857',
  'Country': 'USA',
  'DOB': new Date('2/15/1963'),
  'DOJ': new Date('5/1/1983'),
  'Children': [{
    'Name': 'David william',
    'FullName': 'David william',
    'Designation': 'Vice President',
    'EmployeeID': 'EMP004',
    'Address': '722 Moss Bay Blvd., Kirkland',
    'Country': 'USA',
    'Contact': '(206) 555-3412',
    'DOB': new Date('5/20/1971'),
    'DOJ': new Date('5/1/1991'),
    'Children': [{
      'Name': 'Nancy Davolio',
      'FullName': 'Nancy Davolio',
      'Designation': 'Marketing Executive',
      'EmployeeID': 'EMP035',
      'Address': '4110 Old Redmond Rd., Redmond',
      'Country': 'USA',
      'Contact': '(206) 555-8122',
      'DOB': new Date('3/19/1966'),
      'DOJ': new Date('5/1/1986'),
      'Children': [
        {
          'Name': 'Andrew Fuller',

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        'FullName': 'Andrew Fuller',
        'Designation': 'Sales Representative',
        'EmployeeID': 'EMP045',
        'Address': '14 Garrett Hill, London',
        'Country': 'UK',
        'Contact': '(71) 555-4848',
        'DOB': new Date('9/20/1980'),
        'DOJ': new Date('5/1/2000'),
    },
    {
        'Name': 'Anne Dodsworth',
        'FullName': 'Anne Dodsworth',
        'Designation': 'Sales Representative',
        'EmployeeID': 'EMP091',
        'Address': '4726 - 11th Ave. N.E., Seattle',
        'Country': 'USA',
        'Contact': '(206) 555-1189',
        'DOB': new Date('10/19/1989'),
        'DOJ': new Date('5/1/2009'),
    },
    {
        'Name': 'Michael Suyama',
        'FullName': 'Michael Suyama',
        'Designation': 'Sales Representative',
        'EmployeeID': 'EMP110',
        'Address': 'Coventry House Miner Rd., London',
        'Country': 'UK',
        'Contact': '(71) 555-3636',
        'DOB': new Date('11/02/1987'),
        'DOJ': new Date('5/1/2007'),
    },
    {
        'Name': 'Janet Leverling',
        'FullName': 'Janet Leverling',
        'Designation': 'Sales Coordinator',
        'EmployeeID': 'EMP131',
        'Address': 'Edgeham Hollow Winchester Way, London',
        'Country': 'UK',
        'Contact': '(71) 555-3636',
        'DOB': new Date('11/06/1990'),
        'DOJ': new Date('5/1/2010'),
    },
],
{
    'Name': 'Romey Wilson',
    'FullName': 'Romey Wilson',
    'Designation': 'Sales Executive',
    'EmployeeID': 'EMP039',
    'Address': '7 Houndstooth Rd., London',
    'Country': 'UK',
    'Contact': '(71) 555-3690',
    'DOB': new Date('02/02/1980'),
    'DOJ': new Date('5/1/2000'),
    'Children': [
        {
            'Name': 'Margaret Peacock',

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        'FullName': 'Margaret Peacock',
        'Designation': 'Sales Representative',
        'EmployeeID': 'EMP213',
        'Address': '4726 - 11th Ave. N.E., California',
        'Country': 'USA',
        'Contact': '(206) 555-1989',
        'DOB': new Date('01/21/1986'),
        'DOJ': new Date('5/1/2006'),
    },
    {
        'Name': 'Laura Callahan',
        'FullName': 'Laura Callahan',
        'Designation': 'Sales Coordinator',
        'EmployeeID': 'EMP201',
        'Address': 'Coventry House Miner Rd., London',
        'Country': 'UK',
        'Contact': '(71) 555-2222',
        'DOB': new Date('12/01/1990'),
        'DOJ': new Date('5/1/2010'),
    },
    {
        'Name': 'Steven Buchanan',
        'FullName': 'Steven Buchanan',
        'Designation': 'Sales Representative',
        'EmployeeID': 'EMP197',
        'Address': '200 Lincoln Ave, Salinas, CA 93901',
        'Country': 'USA',
        'Contact': '(831) 758-7408',
        'DOB': new Date('03/23/1987'),
        'DOJ': new Date('5/1/2007'),
    },
    {
        'Name': 'Tedd Lawson',
        'FullName': 'Tedd Lawson',
        'Designation': 'Sales Representative',
        'EmployeeID': 'EMP167',
        'Address': '200 Lincoln Ave, Salinas, CA 93901',
        'Country': 'USA',
        'Contact': '(831) 758-7368',
        'DOB': new Date('08/09/1989'),
        'DOJ': new Date('5/1/2009'),
    },
]
    ]
}
    ]
};

export var summaryRowData = [{
    'FreightID': 'CX2389NK',
    'FreightName': 'Maersk Edibles Co.',
    'TotalUnits': 598,
    'TotalCosts': 27838,
    'UnitWeight': 241,
    'children': [{
        'FreightID': 'QW4567OP',
        'FreightName': 'Chang',
        'TotalUnits': 123,
        'TotalCosts': 3400,
    }
    ]
}
];

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    'UnitWeight': 50,
  }, {
    'FreightID': 'QW3458BH',
    'FreightName': 'Aniseed Syrup',
    'TotalUnits': 89,
    'TotalCosts': 5900,
    'UnitWeight': 87,
  }, {
    'FreightID': 'QW8967OH',
    'FreightName': 'Chef Antons Cajun Seasoning',
    'TotalUnits': 46,
    'TotalCosts': 9578,
    'UnitWeight': 54,
  }, {
    'FreightID': 'QW6549NJ',
    'FreightName': 'Chef Antons Gumbo Mix',
    'TotalUnits': 340,
    'TotalCosts': 8960,
    'UnitWeight': 50,
  }
]]
},
{
  'FreightID': 'DW8954IO',
  'FreightName': 'Aeon fitness inc.',
  'TotalUnits': 1720,
  'TotalCosts': 24367,
  'UnitWeight': 296,
  'children': [
    {
      'FreightID': 'UF5647YH',
      'FreightName': 'Reebox CrossFit Back Bay',
      'TotalUnits': 600,
      'TotalCosts': 8700,
      'UnitWeight': 73,
    },
    {
      'FreightID': 'UF1290LK',
      'FreightName': 'The Green Microgym',
      'TotalUnits': 569,
      'TotalCosts': 8765,
      'UnitWeight': 90,
    },
    {
      'FreightID': 'UF8956KU',
      'FreightName': 'DeFrancos',
      'TotalUnits': 456,
      'TotalCosts': 4589,
      'UnitWeight': 68,
    },
    {
      'FreightID': 'UF7464JK',
      'FreightName': 'Westside Barbell',
      'TotalUnits': 95,
      'TotalCosts': 2313,
      'UnitWeight': 65,
    }
  ],
},
],
},

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        {
          'FreightID': 'EJ9456KN',
          'FreightName': 'Sun technologies inc',
          'TotalUnits': 331,
          'TotalCosts': 22933,
          'UnitWeight': 192,
          'children': [
            {
              'FreightID': 'GH2367OP',
              'FreightName': 'Haier Group',
              'TotalUnits': 78,
              'TotalCosts': 6789,
              'UnitWeight': 23,
            },
            {
              'FreightID': 'GH4309TH',
              'FreightName': 'Panda Electronics',
              'TotalUnits': 90,
              'TotalCosts': 8999,
              'UnitWeight': 48,
            },
            {
              'FreightID': 'GH3494SD',
              'FreightName': 'Jiangsu Etern',
              'TotalUnits': 36,
              'TotalCosts': 4356,
              'UnitWeight': 56,
            },
            {
              'FreightID': 'GH3213FR',
              'FreightName': 'Zhejiang Fuchunjiang',
              'TotalUnits': 127,
              'TotalCosts': 2789,
              'UnitWeight': 65,
            }
          ]
        }
      ]
    ];

export var headerData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
'100', resourceId: '2' },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
'100', resourceId: '1' },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
'100', resourceId: '1' },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'), endDate: new Date('02/07/2017'), duration: 0,
predecessor: '3FS,4FS,5FS' }
    ]
  },

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{
  taskID: 6,
  taskName: 'Design',
  startDate: new Date('02/10/2017'),
  endDate: new Date('02/14/2017'),
  subtasks: [
    { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
'60', predecessor: '6FS', resourceId: '2' },
    { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
'100', predecessor: '6FS', resourceId: '3' },
    { taskID: 9, taskName: 'Get approval from customer', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
'100', predecessor: '9FS', resourceId: '1' },
    { taskID: 10, taskName: 'Design complete', startDate: new
Date('02/14/2017'), endDate: new Date('02/14/2017'), duration: 0,
predecessor: '10FS' }
  ]
},
{
  taskID: 11,
  taskName: 'Implementation Phase',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  subtasks: [
    {
      taskID: 12,
      taskName: 'Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      subtasks: [{
        taskID: 13,
        taskName: 'Implementation Module',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        subtasks: [
          { taskID: 14, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', predecessor: '11FS', resourceId: '3' },
          { taskID: 15, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', predecessor: '11FS', resourceId: '3' },
          { taskID: 16, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', predecessor: '15FS,16FS', resourceId: '4' },
          { taskID: 17, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', predecessor: '17FS', resourceId: '4' },
          { taskID: 18, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'), endDate: new Date('02/27/2017'),
duration: 2, progress: '0', predecessor: '18FS', resourceId: '1' },
          { taskID: 19, taskName: 'Phase complete', startDate: new
Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0,
predecessor: '19FS' }
        ]
      }
    ]
  ]
}
]

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    }
  ]
}
];
export var projectResources = [
{ resourceId: 1, resourceName: 'Project Manager' },
{ resourceId: 2, resourceName: 'Software Analyst' },
{ resourceId: 3, resourceName: 'Developer' },
{ resourceId: 4, resourceName: 'Testing Engineer' }
];
export var pagingdata = [
{
  taskID: 1,
  taskName: 'Planning',
  startDate: new Date('02/03/2017'),
  endDate: new Date('02/07/2017'),
  progress: 100,
  duration: 5,
  priority: 'Normal',
  approved: false,
  subtasks: [
    { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
100, priority: 'Normal', approved: false },
    { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
100, approved: true },
    { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'), endDate: new Date('02/07/2017'), duration: 5, progress:
100, priority: 'Critical', approved: false },
    { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'), endDate: new Date('02/07/2017'), duration: 0, progress:
0, priority: 'Low', approved: true }
  ]
},
{
  taskID: 6,
  taskName: 'Design',
  startDate: new Date('02/10/2017'),
  endDate: new Date('02/14/2017'),
  duration: 3,
  progress: 86,
  priority: 'High',
  approved: false,
  subtasks: [
    { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
60, priority: 'Normal', approved: false },
    { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
100, priority: 'Critical', approved: false },
    { taskID: 9, taskName: 'Get approval from customer', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
100, approved: true },
    { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
100, approved: true },
  ]
}
];

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    { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'), endDate: new Date('02/14/2017'), duration: 0, progress:
0, priority: 'Normal', approved: true }
  ],
},
{
  taskID: 12,
  taskName: 'Implementation Phase',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,
  duration: 11,
  subtasks: [
    {
      taskID: 13,
      taskName: 'Phase 1',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'High',
      approved: false,
      duration: 11,
      subtasks: [
        { taskID: 15, taskName: 'Development Task 1', startDate: new
Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3, progress:
'50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2', startDate: new
Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3, progress:
'50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting', startDate:
new Date('02/26/2017'), endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete', startDate: new
Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0, priority:
'Low', approved: true }
      ]
    },
  ],
},
{
  taskID: 21,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/28/2017'),
  priority: 'High',
  approved: false,
  duration: 12,
  subtasks: [
    { taskID: 23, taskName: 'Development Task 1', startDate: new
Date('02/17/2017'), endDate: new Date('02/20/2017'), duration: 4, progress:
'50', priority: 'Normal', approved: true },
  ]
}

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        { taskID: 24, taskName: 'Development Task 2', startDate: new
Date('02/17/2017'), endDate: new Date('02/20/2017'), duration: 4, progress:
'50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'), endDate: new Date('02/24/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'), endDate: new Date('02/26/2017'), duration: 2, progress:
'0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting', startDate:
new Date('02/27/2017'), endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete', startDate: new
Date('02/28/2017'), endDate: new Date('02/28/2017'), duration: 0, priority:
'Normal', approved: false }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1', startDate: new
Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3, progress:
'50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2', startDate: new
Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3, progress:
'50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review meeting', startDate:
new Date('02/26/2017'), endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete', startDate: new
Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0, priority:
'Critical', approved: false }
        ]
    }
]
};
export var textWrapData = [
{
    taskID: 1,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,

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    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Software Specification', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
60, priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'), endDate: new Date('02/12/2017'), duration: 3, progress:
100, priority: 'Critical', approved: false },
      { taskID: 4, taskName: 'Get approval from customer', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
100, approved: true },
      { taskID: 5, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'), endDate: new Date('02/14/2017'), duration: 2, progress:
100, approved: true },
      { taskID: 6, taskName: 'Design complete', startDate: new
Date('02/14/2017'), endDate: new Date('02/14/2017'), duration: 0, progress:
0, priority: 'Normal', approved: true }
    ]
  },
  {
    taskID: 7,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    subtasks: [
      {
        taskID: 8,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        subtasks: [{
          taskID: 9,
          taskName: 'Implementation Module 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'Normal',
          duration: 11,
          approved: false,
          subtasks: [
            { taskID: 10, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
            { taskID: 11, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 12, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', priority: 'Normal', approved: true },

```

```

        { taskID: 13, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: false },
        { taskID: 14, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'), endDate: new Date('02/27/2017'),
duration: 2, progress: '0', priority: 'High', approved: false },
        { taskID: 15, taskName: 'Phase 1 complete', startDate: new
Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0, priority:
'Low', approved: true }
    ]
  }
},
{
  taskID: 16,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/28/2017'),
  priority: 'High',
  approved: false,
  duration: 12,
  subtasks: [{
    taskID: 17,
    taskName: 'Implementation Module 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'Critical',
    approved: false,
    duration: 12,
    subtasks: [
      { taskID: 18, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
      { taskID: 19, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
      { taskID: 20, taskName: 'Testing', startDate: new
Date('02/21/2017'), endDate: new Date('02/24/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
      { taskID: 21, taskName: 'Bug fix', startDate: new
Date('02/25/2017'), endDate: new Date('02/26/2017'), duration: 2, progress:
'0', priority: 'Low', approved: false },
      { taskID: 22, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'), endDate: new Date('02/28/2017'),
duration: 2, progress: '0', priority: 'Critical', approved: true },
      { taskID: 23, taskName: 'Phase 2 complete', startDate: new
Date('02/28/2017'), endDate: new Date('02/28/2017'), duration: 0, priority:
'Normal', approved: false }
    ]
  }
]
},
{
  taskID: 24,
  taskName: 'Phase 3',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,

```

```

        duration: 11,
        subtasks: [{
            taskID: 25,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            subtasks: [
                { taskID: 26, taskName: 'Development Task 1', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 27, taskName: 'Development Task 2', startDate:
new Date('02/17/2017'), endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
                { taskID: 28, taskName: 'Testing', startDate: new
Date('02/20/2017'), endDate: new Date('02/21/2017'), duration: 2, progress:
'0', priority: 'Critical', approved: true },
                { taskID: 29, taskName: 'Bug fix', startDate: new
Date('02/24/2017'), endDate: new Date('02/25/2017'), duration: 2, progress:
'0', priority: 'High', approved: false },
                { taskID: 30, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'), endDate: new Date('02/27/2017'),
duration: 2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 31, taskName: 'Phase 3 complete', startDate: new
Date('02/27/2017'), endDate: new Date('02/27/2017'), duration: 0, priority:
'Critical', approved: false },
            ]
        }]
    }
]
}
];{% enddraw %}

```

Limitations

The following features are not supported in the immutable mode:

- Frozen rows and columns
- Row Template
- Detail Template
- Column reorder
- Virtualization
- Infinite scroll

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Module in React Treegrid component

The following modules should be injected to extend treegrid's functionality.

Module	Description
-----	-----

- | [PageService](#) | Inject this module to use paging feature. |
- | [SortService](#) | Inject this module to use sorting feature. |
- | [FilterService](#) | Inject this module to use filtering feature. |
- | [EditService](#) | Inject this module to use editing feature. |
- | [AggregateService](#) | Inject this module to use aggregate feature. |
- | [ColumnMenuService](#) | Inject this module to use column menu feature. |
- | [CommandColumnService](#) | Inject this module to use command column feature. |
- | [ContextMenuService](#) | Inject this module to use context menu feature. |
- | [ResizeService](#) | Inject this module to use resize feature. |
- | [ReorderService](#) | Inject this module to use reorder feature. |
- | [PrintService](#) | Inject this module to use to use print feature and this is a default injected module. |
- | [ToolbarService](#) | Inject this module to use toolbar feature. |
- | [ExcelExportService](#) | Inject this module to use Excel export feature. |
- | [PdfExportService](#) | Inject this module to use PDF export feature. |

These modules should be injected into the treegrid using the `Inject` directive.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Columns

Columns in React Treegrid component

The column definitions are used as the [dataSource](#) schema in the TreeGrid. This plays a vital role in rendering column values in the required format. The treegrid operations such as sorting, filtering and searching etc. are performed based on column definitions. The [field](#) property of the [columns](#) is necessary to map the data source values in TreeGrid columns.

1. If the column [field](#) is not specified in the dataSource, the column values will be empty.
2. If the [field](#) name contains “dot” operator, it is considered as complex binding.

[treeColumnIndex](#) property denotes the column that is used to expand and collapse child rows.

Format

To format cell values based on specific culture, use the [columns.format](#) property. The TreeGrid uses [Internalization](#) library to format [number](#) and [date](#) values.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
```

```

        <ColumnsDirective>
          <ColumnDirective field='orderID' headerText='Order ID' width='90'
textAlign='Right' />
          <ColumnDirective field='orderName' headerText='Order Name'
width='180' />
          <ColumnDirective field='unitPrice' headerText='Price Per Unit'
width='90' format='c2' textAlign='Right' type='number' />
        </ColumnsDirective>
      </TreeGridComponent>;
    }
  ;
  export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='orderID' headerText='Order ID' width='90'
textAlign='Right' />
      <ColumnDirective field='orderName' headerText='Order Name'
width='180' />
      <ColumnDirective field='unitPrice' headerText='Price Per Unit'
width='90' format='c2' textAlign='Right' type='number' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;

```

By default, the [number](#) and [date](#) values are formatted in **en-US** locale.

Number formatting

The number or integer values can be formatted using the below format strings.

Format | Description | Remarks

{ type:'date', format:'dd/MM/yyyy' } | 04/07/1996

{ type:'date', format:'dd.MM.yyyy' } | 04.07.1996

{ type:'date', skeleton:'short' } | 7/4/96

{ type:'dateTime', format:'dd/MM/yyyy hh:mm a' } | 04/07/1996 12:00 AM

{ type:'dateTime', format:'MM/dd/yyyy hh:mm:ss a' } | 07/04/1996 12:00:00 AM

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {

```

```

    const formatOption = { type: 'date', format: 'dd/MM/yyyy' };
    return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
      <ColumnsDirective>
        <ColumnDirective field='orderID' headerText='Order ID' width='90'
        textAlign='Right' />
        <ColumnDirective field='orderName' headerText='Order Name'
        width='180' />
        <ColumnDirective field='orderDate' headerText='Order Date'
        width='160' textAlign='Right' format={formatOption} />
        <ColumnDirective field='price' headerText='Price' width='90'
        format='c2' textAlign='Right' type='number' />
      </ColumnsDirective>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
  const formatOption: object = {type:'date', format:'dd/MM/yyyy'};
  return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
  childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='orderID' headerText='Order ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='orderName' headerText='Order Name'
      width='180' />
      <ColumnDirective field='orderDate' headerText='Order Date'
      width='160' textAlign='Right' format={formatOption} />
      <ColumnDirective field='price' headerText='Price' width='90'
      format='c2' textAlign='Right' type='number' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;

```

Lock Columns

You can lock columns by using [column.lockColumn](#) property. The locked columns will be moved to the first position. Also you can't reorder its position.

In the below example, duration column is locked and its reordering functionality is disabled.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Reorder,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import './custom.css';
import { sampleData } from './datasource';
function App() {

```

```

    const customAttributes = { class: 'customcss' };
    return <TreeGridComponent dataSource={sampleData} allowReordering={true}
allowSelection={false} treeColumnIndex={1} childMapping='subtasks'
height='315'>
      <Inject services={[Reorder]}/>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='110' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='110' lockColumn={true} textAlign='Right'
customAttributes={customAttributes} />
        <ColumnDirective field='progress' headerText='Progress'
width='180' />
      </ColumnsDirective>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, Reorder,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const customAttributes: any = {class: 'customcss'};
  return <TreeGridComponent dataSource={sampleData} allowReordering={true}
allowSelection={false}
treeColumnIndex={1} childMapping='subtasks' height='315'>
    <Inject services={[Reorder]}/>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='110' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='110' lockColumn= {true} textAlign='Right'
customAttributes={customAttributes} />
      <ColumnDirective field='progress' headerText='Progress'
width='180' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;

```

Column Type

Column type can be specified using the [columns.type](#) property. It specifies the type of data the column binds.

If the [format](#) is defined for a column, the column uses [type](#) to select the appropriate format option ([number](#) or [date](#)).

TreeGrid column supports the following types:

- string
- number
- boolean
- date
- datetime

If the [type](#) is not defined, it will be determined from the first record of the [dataSource](#).

Checkbox Column

To render checkboxes in existing column, you need to set [columns.showCheckbox](#) property as **true**

It is also possible to select the rows hierarchically using checkboxes in TreeGrid by enabling [autoCheckHierarchy](#) property. When we check on any parent record checkbox then the child record checkboxes will get checked.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='315' autoCheckHierarchy={true}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='120'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' showCheckbox={true} />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='150' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='130' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
      height='315' autoCheckHierarchy={true}>
        <ColumnsDirective>
          <ColumnDirective field='taskID' headerText='Task ID' width='120'
            textAlign='Right' />
          <ColumnDirective field='taskName' headerText='Task Name'
            width='180' showCheckbox={true} />
          <ColumnDirective field='startDate' headerText='Start Date'
            width='150' format='yMd' textAlign='Right' type='date' />
          <ColumnDirective field='duration' headerText='Duration'
            width='130' textAlign='Right' />
        </ColumnsDirective>
      </TreeGridComponent>
    };
    export default App;

```

For hierarchy selection between the records, we need to enable the [autoCheckHierarchy](#) property.

Controlling TreeGrid actions

You can enable or disable treegrid action for a particular column by setting the [allowFiltering](#), and [allowSorting](#) properties.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowSorting={true} allowFiltering={true}
    height='270'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' allowSorting={false} />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date'
        allowFiltering={false} />
      <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Sort]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Sort } from '@syncfusion/ej2-react-treegrid';

```

```
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    allowSorting={true} allowFiltering={true} height='270'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' allowSorting={false}/>
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' allowFiltering={false}
/>
      <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Sort]} />
  </TreeGridComponent>
};
export default App;
```

Show/Hide Columns by External Button

You can show or hide treegrid columns dynamically using external buttons by invoking the [showColumns](#) or [hideColumns](#) method.

APP.JSX

```
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const show = () => {
    if (treegrid) {
      treegrid.showColumns(['Task ID', 'Duration']); // show by
HeaderText
    }
  };
  const hide = () => {
    if (treegrid) {
      treegrid.hideColumns(['Task ID', 'Duration']); // hide by
HeaderText
    }
  };
  return (<div>
    <ButtonComponent cssClass='e-flat' onClick={show}>Show</ButtonComponent>
    <ButtonComponent cssClass='e-flat'
onClick={hide}>Hide</ButtonComponent><TreeGridComponent
dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
height='270' ref={g => treegrid = g}>
    <ColumnsDirective>
```

```

        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
</TreeGridComponent>
</div>;
}
;
export default App;

```

APP.TSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Page, TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const show = () => {
        if (treegrid) {
            treegrid.showColumns(['Task ID', 'Duration']); // show by
HeaderText
        }
    }
    const hide = () => {
        if (treegrid) {
            treegrid.hideColumns(['Task ID', 'Duration']); // hide by
HeaderText
        }
    }
    return (<div>
        <ButtonComponent cssClass='e-flat' onClick= { show
}>Show</ButtonComponent>
        <ButtonComponent cssClass='e-flat' onClick= { hide
}>Hide</ButtonComponent><TreeGridComponent dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks' height='270' ref={g => treegrid
= g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Page]} />

```

```

    </TreeGridComponent>
  </div>)
};
export default App;

```

ValueAccessor

The [valueAccessor](#) is used to access/manipulate the value of display data. You can achieve custom value formatting by using the [valueAccessor](#).

APP.JSX

```

import { getValue } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
  const currencyFormatter = (field, data, column) => {
    return '€' + getValue('price', data);
  };
  const orderFormatter = (field, data, column) => {
    return data[field] + '-' + getValue('Category', data);
  };
  return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
  childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='orderID' headerText='Order ID'
width='90' textAlign='Right' />
      <ColumnDirective field='orderName' headerText='Order Name'
width='210' valueAccessor={orderFormatter} />
      <ColumnDirective field='orderDate' headerText='Order Date'
width='110' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='price' headerText='Price' width='80'
valueAccessor={currencyFormatter} textAlign='Right' type='number' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getValue } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
  const currencyFormatter = (field: string, data: object, column: object)
=> {
    return '€' + getValue('price', data);
  }
  const orderFormatter = (field: string, data: object, column: object) =>
{

```

```

        return data[field] + '-' + getValue('Category', data);
    }
    return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='orderId' headerText='Order ID'
            width='90' textAlign='Right' />
            <ColumnDirective field='orderName' headerText='Order Name'
            width='210' valueAccessor={orderFormatter} />
            <ColumnDirective field='orderDate' headerText='Order Date'
            width='110' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='price' headerText='Price' width='80'
            valueAccessor={currencyFormatter} textAlign='Right' type='number' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
    };
    export default App;

```

Display Array type Columns

You can bind an array of objects in a column by using the [valueAccessor](#) property. In this example, the name field has an array of two objects, FirstName and LastName. These two objects are joined and bound to a column using the [valueAccessor](#).

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { stringData } from './datasource';
function App() {
    const orderFormatter = (field, data, column) => {
        return data[field].map((s) => {
            return s.lastName || s.firstName;
        }).join(' ');
    };
    return <TreeGridComponent dataSource={stringData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='110'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='name' headerText='Assignee' width='150'
            textAlign='Left' valueAccessor={orderFormatter} />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { stringData } from './datasource';
function App() {
    const orderFormatter = (field: string, data: object, column: object):
string => {
        return data[field].map((s: {lastName: string, firstName: string}):
string => {
            return s.lastName || s.firstName }).join(' ');
        }
    return <TreeGridComponent dataSource={stringData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='110'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='name' headerText='Assignee' width='150'
textAlign='Left'
                valueAccessor={orderFormatter} />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;
```

Expression Column

You can achieve the expression column by using the [valueAccessor](#) property.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
    const totalPrice = (field, data, column) => {
        return data.units * data.unitPrice;
    };
    return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='orderID' headerText='Order ID'
width='110' textAlign='Right' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='210' textAlign='Left' />
            <ColumnDirective field='units' headerText='Units' width='120'
textAlign='Right' />
            <ColumnDirective field='unitPrice' headerText='Unit Price'
width='120' textAlign='Right' format='c2' type='number' />
            <ColumnDirective field='price' headerText='Total Price'
width='120' textAlign='Right' format='c2' type='number'
                valueAccessor={totalPrice} />
        </ColumnsDirective>
    </TreeGridComponent>
};
```

```

    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
  const totalPrice = (field: string, data: { units: number, unitPrice:
    number }, column: object): number => {
    return data.units * data.unitPrice;
  };
  return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='orderId' headerText='Order ID'
        width='110' textAlign='Right' />
      <ColumnDirective field='orderName' headerText='Order Name'
        width='210' textAlign='Left' />
      <ColumnDirective field='units' headerText='Units' width='120'
        textAlign='Right' />
      <ColumnDirective field='unitPrice' headerText='Unit Price'
        width='120' textAlign='Right'
        format='c2' type='number' />
      <ColumnDirective field='price' headerText='Total Price'
        width='120' textAlign='Right'
        format='c2' type='number' valueAccessor= {totalPrice} />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;

```

Render boolean value as checkbox

To render boolean values as checkbox in columns, you need to set [displayAsCheckBox](#) property as **true**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskId' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='approved' headerText='Approved' width='90'
        format='yMd' textAlign='Right' displayAsCheckBox={true} />
    </ColumnsDirective>
  </TreeGridComponent>
};

```



```

        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='approved' headerText='Approved' width='90'
format='yMd' textAlign='Right' displayAsCheckBox={true} />
      <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Headers in React Treegrid component

Header text

By default, column header title is displayed from column [field](#) value. To override the default header title, you have to define the [headerText](#) value.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    </ColumnsDirective>
  </TreeGridComponent>
};

```

```

        <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;

```

* If both the [field](#) and [headerText](#) are not defined in the column, the column renders with “empty” header text.

Header template

You can customize the header element by using the [headerTemplate](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const taskName = () => {
    return (<div>
    <b>Task Name</b></div>);
  };
  const startDate = () => {
    return (<div>
    <b>Start Date</b></div>);
  };
  const duration = () => {

```

```

        return (<div>
        <b>Duration</b></div>);
    };
    const progress = () => {
        return (<div>
        <b>Progress</b></div>);
    };
    return <TreeGridComponent dataSource={sampleData}
childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskName' width='220'
headerTemplate={taskName}/>
            <ColumnDirective field='startDate' headerText='Start Date'
format='yMd' type='date' textAlign='Right' headerTemplate={startDate}/>
            <ColumnDirective field='duration' textAlign='Right'
headerTemplate={duration}/>
            <ColumnDirective field='progress' headerText='progress'
textAlign='Right' headerTemplate={progress}/>
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const taskName = () => {
        return (<div>
        <b>Task Name</b></div>);
    }
    const startDate = () => {
        return (<div>
        <b>Start Date</b></div>);
    }
    const duration = () => {
        return (<div>
        <b>Duration</b></div>);
    }
    const progress = () => {
        return (<div>
        <b>Progress</b></div>);
    }
    return <TreeGridComponent dataSource={sampleData}
childMapping='subtasks' height='315'>
        <ColumnsDirective>

```

```

        <ColumnDirective field='taskName' width='220'
headerTemplate={taskName}/>
        <ColumnDirective field='startDate' headerText='Start Date'
format='yMd' type='date' textAlign='Right' headerTemplate={startDate}/>
        <ColumnDirective field='duration' textAlign='Right'
headerTemplate={duration}/>
        <ColumnDirective field='progress' headerText='progress'
textAlign='Right' headerTemplate={progress}/>
    </ColumnsDirective>
</TreeGridComponent>
};
export default App;

```

Column template in React Treegrid component

The column [Link to the Video](#) has options to display custom element instead of a field value in the column.

You can check this video to learn about how to use templates for column(based on conditions) and headers in Tree Grid.

APP.JSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { SparklineComponent } from '@syncfusion/ej2-react-charts';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent }
from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { getSparkData, textdata } from './datasource';
function App() {
    const load = (args) => {
        let theme = location.hash.split('/')[1];
        theme = theme ? theme : 'Material';
        args.sparkline.theme = (theme.charAt(0).toUpperCase() +
theme.slice(1));
    };
    const taxColTemplate = (props) => {
        return (<SparklineComponent id={"spkline" + getObject('EmployeeID',
props)} fill='#3C78EF' height='50px' load={load} lineWidth={2}
valueType='Numeric' width='150px' dataSource={getSparkData('line',
+getObject('EmployeeID', props))}/>);
    };
    const dayColTemplate = (props) => {
        return (<SparklineComponent id={"spkarea" + getObject('EmployeeID',
props)} fill='#3C78EF' height='50px' load={load}
negativePointColor='#f7a816' type='Column' valueType='Numeric' width='150px'
dataSource={getSparkData('column', +getObject('EmployeeID', props))}/>);
    };
    const yearColTemplate = (props) => {
        return (<SparklineComponent id={"spkwl" + getObject('EmployeeID',
props)} fill='#3C78EF' height='50px' load={load}
negativePointColor='#f7a816' type='WinLoss' tiePointColor='darkgray'
valueType='Numeric' width='150px' dataSource={getSparkData('column',
+getObject('EmployeeID', props))}/>);
    };
    return <TreeGridComponent dataSource={textdata} treeColumnIndex={0}
childMapping='Children' allowPaging={true} height='410'>

```

```

    <ColumnsDirective>
      <ColumnDirective field='EmpID' headerText='Employee ID'
width='95' />
      <ColumnDirective field='Name' headerText='Name' width='90' />
      <ColumnDirective field='DOB' headerText='DOB' width='90'
format='yMd' textAlign='Right' />
      <ColumnDirective headerText='Tax per annum' width='90'
template={taxColTemplate} textAlign='Center' />
      <ColumnDirective headerText='One Day Index'
template={dayColTemplate} textAlign='Center' width='100' />
      <ColumnDirective headerText='Year GR' template={yearColTemplate}
textAlign='Center' width='100' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { ISparklineLoadedEventArgs, SparklineComponent, SparklineTheme }
from '@syncfusion/ej2-react-charts';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { getSparkData, textdata } from './datasource';
function App() {
  const load = (args: ISparklineLoadedEventArgs): void => {
    let theme: string = location.hash.split('/')[1];
    theme = theme ? theme : 'Material';
    args.sparkline.theme = (theme.charAt(0).toUpperCase() + theme.slice(1))
as SparklineTheme;
  }

  const taxColTemplate = (props: object) => {
    return (<SparklineComponent id={"spkline" + getObject('EmployeeID',
props)}
      fill='#3C78EF'
      height='50px'
      load={load}
      lineWidth= {2}
      valueType='Numeric'
      width='150px'
      dataSource={getSparkData('line', +getObject('EmployeeID',
props))} />);
  }

  const dayColTemplate = (props: object) => {
    return (<SparklineComponent id={"spkarea" + getObject('EmployeeID',
props)}
      fill='#3C78EF'
      height='50px'
      load={load}
      negativePointColor='#f7a816'
      type='Column'

```

```

        valueType='Numeric'
        width='150px'
        dataSource={getSparkData('column', +getObject('EmployeeID', props))}/>);
    }
    const yearColTemplate = (props: object) => {
        return (<SparklineComponent id={"spkwl" + getObject('EmployeeID',
props)}
        fill='#3C78EF'
        height='50px'
        load={load}
        negativePointColor='#f7a816'
        type='WinLoss'
        tiePointColor= 'darkgray'
        valueType='Numeric'
        width='150px'
        dataSource={getSparkData('column', +getObject('EmployeeID', props))}/>);
    }
    return <TreeGridComponent dataSource={textdata} treeColumnIndex={0}
childMapping='Children'
    allowPaging={true} height='410'>
        <ColumnsDirective>
            <ColumnDirective field='EmpID' headerText='Employee ID'
width='95' />
            <ColumnDirective field='Name' headerText='Name' width='90' />
            <ColumnDirective field='DOB' headerText='DOB' width='90'
format='yMd' textAlign='Right' />
            <ColumnDirective headerText='Tax per annum' width='90'
template={taxColTemplate} textAlign='Center' />
            <ColumnDirective headerText='One Day Index'
template={dayColTemplate} textAlign='Center' width='100' />
            <ColumnDirective headerText='Year GR' template={yearColTemplate}
textAlign='Center' width='100' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
export default App;

```

Using condition template

You can render the template elements based on condition.

In the following code, checkbox is rendered based on *Approved* field value.

APP.JSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const treegridTemplate = (props) => {
        if (getObject('approved', props)) {
            return (<div className="template_checkbox">
                <input type="checkbox" defaultChecked />
            </div>);
        }
    };
}

```

```

    }
    else {
        return (<div className="template_checkbox">
            <input type="checkbox"/>
        </div>);
    }
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective headerText='approved' width='120'
template={treegridTemplate} textAlign='Center' />
        <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const treegridTemplate = (props: object) => {
        if (getObject('approved', props)) {
            return (<div className="template_checkbox">
                <input type="checkbox" defaultChecked />
            </div>);
        } else {
            return (<div className="template_checkbox">
                <input type="checkbox" />
            </div>);
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective headerText='approved' width='120'
template={treegridTemplate} textAlign='Center' />
            <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>

```

```

        <Inject services={[Page]}/>
    </TreeGridComponent>
};
export default App;

```

Complex data binding in React Treegrid component

You can achieve complex data binding in the treegrid by using the dot(.) operator in the [column.field](#).

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { complexData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={complexData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='assignee.firstName' headerText='Assignee'
            width='90' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
            textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { complexData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={complexData} treeColumnIndex={1}
    childMapping='subtasks' height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='assignee.firstName' headerText='Assignee'
            width='90' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
            textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```


Auto fit columns in React Treegrid component

The [autoFitColumns](#) method resizes the column to fit the widest cell's content without wrapping. You can autofit a specific column at initial rendering by invoking the [autoFitColumns](#) method in [dataBound](#) event.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const dataBound = () => {
    if (treegrid) {
      treegrid.autoFitColumns(['taskName']);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315' allowResizing={true}
dataBound={dataBound} ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='60' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='120' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
width='120' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Resize]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, Resize, TreeGrid,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const dataBound = () =>{
    if (treegrid) {
      treegrid.autoFitColumns(['taskName']);
    }
  }
  return <TreeGridComponent dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks'
height='315' allowResizing={true} dataBound= { dataBound }
ref={g => treegrid = g}>
```

```

        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='60' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='120' textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress'
width='120' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Resize]} />
    </TreeGridComponent>
};
export default App;

```

You can autofit all columns, by invoking [autoFitColumns](#) method without column name.

Column reorder in React Treegrid component

Reordering can be done by drag and drop of a particular column header from one index to another index within the treegrid. To enable reordering, set the [allowReordering](#) to true.

To use reordering, inject the [Reorder](#) module in the treegrid.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Reorder,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowReordering={true} height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Reorder]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, Reorder,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';

```

```
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
    allowReordering={true} height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress' width='80'
        textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Reorder]} />
  </TreeGridComponent>
};
export default App;
```

You can disable reordering a particular column by setting the [columns.allowReordering](#) to false.

Reorder multiple columns

Multiple columns can be reordered at a time by using the [reorderColumns](#) method.

APP.JSX

```
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, Inject, Reorder,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const reorder = () => {
    if (treegrid) {
      treegrid.reorderColumns(['taskID', 'duration'], 'progress');
    }
  };
  return (<div>
    <ButtonComponent id='reorderMultipleCols' onClick={reorder}>Reorder Task
    ID and Duration to Last</ButtonComponent>
    <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowReordering={true} height='285' ref={g =>
    treegrid = g}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
        <ColumnDirective field='progress' headerText='Progress'
        width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Reorder]} />
    </TreeGridComponent></div>);
```

```

}
;
export default App;

```

APP.TSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, Inject, Reorder, TreeGrid,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const reorder = () => {
        if (treegrid) {
            treegrid.reorderColumns(['taskID', 'duration', 'progress']);
        }
    }
    return (<div>
        <ButtonComponent id='reorderMultipleCols' onClick= { reorder }>Reorder
Task ID and Duration to Last</ButtonComponent>
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowReordering={true} height='285' ref={g =>
treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
                <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Reorder]} />
        </TreeGridComponent></div>
    );
}
export default App;

```

Column resizing in React Treegrid component

Column width can be resized by clicking and dragging the right edge of the column header. While dragging, the width of the respective column will be resized immediately. Each column can be auto resized by double-clicking the right edge of the column header to fit the width of that column based on the widest cell content. To enable column resize, set the [allowResizing](#) property to true.

To use the column resize, inject **Resize** module in the treegrid.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {

```

```

    return <TreeGridComponent dataSource={sampleData} allowResizing={true}
allowSelection={false} treeColumnIndex={1} childMapping='subtasks'
height='315'>
    <Inject services={[Resize]}/>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} allowResizing={true}
allowSelection={false} treeColumnIndex={1} childMapping='subtasks'
height='315'>
        <Inject services={[Resize]}/>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```

You can disable Resizing for a particular column, by specifying [columns.allowResizing](#) to false.

In RTL mode, you can click and drag the left edge of header cell to resize the column.

Min and max width

Column resize can be restricted between minimum and maximum width by defining the [columns->minWidth](#) and [columns->maxWidth](#).

In the following sample, minimum and maximum width are defined for **Duration**, and **Task Name** columns.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowResizing={true} height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
minWidth='130' width='180' maxWidth='300' />
            <ColumnDirective field='duration' headerText='Duration'
minWidth='50' width='80' maxWidth='150' textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Resize]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowResizing={true} height='315'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name' minWidth=
'130' width='180' maxWidth='300' />
            <ColumnDirective field='duration' headerText='Duration' minWidth=
'50' width='80' maxWidth='150' textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Resize]} />
    </TreeGridComponent>
};
export default App;
```

Resize stacked column

Stacked columns can be resized by clicking and dragging the right edge of the stacked column header. While dragging, the width of the respective child columns will be resized at the same time. You can disable resize for particular stacked column by setting [allowResizing](#) as **false** to its columns.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
    const colStack1 = [
        { field: 'orderID', headerText: 'Order ID', width: 90, textAlign:
'Right' },
        { field: 'orderName', headerText: 'Order Name', width: 170,
textAlign: 'Left' }
    ];
    const colStack2 = [
        { field: 'Category', allowResizing: false, headerText: 'Shipment
Category', width: 150, textAlign: 'Left' },
        { field: 'shippedDate', headerText: 'Shipped Date', width: 120,
textAlign: 'Right', format: 'yMd' }
    ];
    return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
childMapping='subtasks' allowResizing={true} height='260'>
        <ColumnsDirective>
            <ColumnDirective columns={colStack1} headerText='Order Details'
textAlign='Center'/>
            <ColumnDirective columns={colStack2} headerText='Shipment
Details' textAlign='Center'/>
        </ColumnsDirective>
        <Inject services={[Resize]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnModel, ColumnsDirective, Inject, Resize,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { orderData } from './datasource';
function App() {
    const colStack1: ColumnModel[] = [
        { field: 'orderID', headerText: 'Order ID', width: 90, textAlign:
'Right' },
        { field: 'orderName', headerText: 'Order Name', width: 170,
textAlign: 'Left' }
    ];
    const colStack2: ColumnModel[] = [
        { field: 'Category', allowResizing: false, headerText: 'Shipment
Category', width: 150, textAlign: 'Left' },
        { field: 'shippedDate', headerText: 'Shipped Date', width: 120,
textAlign: 'Right', format: 'yMd' }
    ];
    return <TreeGridComponent dataSource={orderData} treeColumnIndex={1}
childMapping='subtasks' allowResizing={true} height='260'>
        <ColumnsDirective>
            <ColumnDirective columns={colStack1} headerText='Order Details'
textAlign='Center'/>

```

```

        <ColumnDirective columns={colStack2} headerText='Shipment
Details' textAlign='Center' />
    </ColumnsDirective>
    <Inject services={[Resize]}/>
</TreeGridComponent>
};
export default App;

```

Touch interaction

When the right edge of the header cell is tapped, a floating handler will be visible over the right border of the column. To resize the column, tap and drag the floating handler as needed.

The following screenshot represents the column resizing in touch device.

<!-- markdownlint-disable MD033 -->

<!-- markdownlint-enable MD033 -->

Column menu in React Treegrid component

The column menu has options to integrate features like sorting, filtering, and autofit. It will show a menu with the integrated feature when users click on multiple icon of the column. To enable column menu, you need to define the [showColumnMenu](#) property as true.

To use the column menu, inject the **ColumnMenu** module in the treegrid.

The default items are displayed in following table.

Item	Description
SortAscending	Sort the current column in ascending order.
SortDescending	Sort the current column in descending order.
AutoFit	Auto fit the current column.
AutoFitAll	Auto fit all columns.
Filter	Show the filter option as given in filterSettings.type

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { ColumnMenu, Filter, Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const filterSettings = { type: 'Menu' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315' allowFiltering={true}
allowSorting={true} showColumnMenu={true} filterSettings={filterSettings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='120'
textAlign='Right' />

```



```

        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='150' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='130' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Sort, Filter, ColumnMenu]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent }
from '@syncfusion/ej2-react-treegrid';
import { ColumnMenu, Filter, FilterSettingsModel, Sort } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const filterSettings: FilterSettingsModel = { type: 'Menu' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='315' allowFiltering={true}
allowSorting={true} showColumnMenu={true}
filterSettings={filterSettings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='120'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='150' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='130' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort, Filter, ColumnMenu]} />
    </TreeGridComponent>
};
export default App;

```

You can disable column menu for a particular column by defining the [columns.showColumnMenu](#) as **false**.

Responsive columns in React Treegrid component

You can toggle column visibility based on media queries which are defined at the [hideAtMedia](#). The [Link to the Video](#) accepts valid [Media Queries](#).

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';

```

```
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' hideAtMedia='(min-width:700px)' />
      // column hides when browser screen width less than 700px;
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' hideAtMedia='(max-
      width:500px)' />
      // column shows when browser screen width less than or equal to
      500px;
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='315'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' hideAtMedia='(min-width:700px)' />
      // column hides when browser screen width less than 700px;
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd'
      textAlign='Right' type='date' hideAtMedia = '(max-
      width:500px)' />
      // column shows when browser screen width less than or equal to
      500px;
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;
```

Row

Row in React Treegrid component

The row represents record details fetched from data source.

To get start quickly with features in Row, you can check on this video:

Customize rows

You can customize the appearance of a row by using the [rowDataBound](#) event. The [rowDataBound](#) event triggers for every row. In the event handler, you can get the [RowDataBoundEventArgs](#) that contains details of the row.

APP.JSX

```
import { getObject } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const rowDataBound = (args) => {
        if (getObject('duration', args.data) === 0) {
            args.row.style.background = '#336c12';
        }
        else if (getObject('duration', args.data) < 3) {
            args.row.style.background = '#7b2b1d';
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' rowDataBound={rowDataBound}
    enableHover={false}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { getObject, RowDataBoundEventArgs } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const rowDataBound = (args: RowDataBoundEventArgs) => {
        if (getObject('duration', args.data) === 0) {
            (args.row as HTMLTableRowElement).style.background= '#336c12';
        } else if (getObject('duration', args.data) < 3) {
            (args.row as HTMLTableRowElement).style.background= '#7b2b1d';
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' />
```

```

        height='275' rowDataBound={rowDataBound} enableHover={false}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```

Styling alternate row

You can change the treegrid's alternative rows' background color by overriding the `.e-altrow` class.

```

`css
.e-treegrid .e-altrow {
background-color: #fafafa;
}
`

```

Please refer the following example.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' enableHover={false}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
            textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='275' enableHover={false}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
  textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;
```

Refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Row height in React Treegrid component

You can customize the row height of treegrid rows through the [rowHeight](#) property. The **rowHeight** property is used to change the row height of entire treegrid rows.

In the below example, the **rowHeight** is set as *60px*.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
export default class App extends React.Component {
  render() {
    return <TreeGridComponent dataSource={sampleData}
  treeColumnIndex={1} childMapping='subtasks' height='275' rowHeight='60'>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
  width='90' textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
  width='80' textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>;
  }
}
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
export default class App extends React.Component<{}>, {}>{
  public render() {
    return <TreeGridComponent dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks'
height='275' rowHeight='60'>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>
  }
}
```

Customize row height for particular row

TreeGrid row height for particular row can be customized using the [rowDataBound](#) event by setting the **rowHeight** in arguments for each row based on the requirement.

In the below example, the row height for the row with Task ID as 3 is set as 90px using the **rowDataBound** event.

APP.JSX

```
import { getObject } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
export default class App extends React.Component {
  rowDataBound(args) {
    if (getObject('taskID', args.data) === 3) {
      args.rowHeight = 90;
    }
  }
  render() {
    this.rowDataBound = this.rowDataBound.bind(this);
    return <TreeGridComponent dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks' height='275'
rowDataBound={this.rowDataBound}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      </ColumnsDirective>
    </TreeGridComponent>
  }
}
```

```

        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>;
  }
}

```

APP.TSX

```

import { getObject, RowDataBoundEventArgs } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
export default class App extends React.Component<{}, {}>{
  public rowDataBound(args: RowDataBoundEventArgs) {
    if(getObject('taskID', args.data) === 3){
      args.rowHeight = 90;
    }
  }
  public render() {
    this.rowDataBound = this.rowDataBound.bind(this);
    return <TreeGridComponent dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks'
height='275' rowDataBound={this.rowDataBound}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>
  }
}

```

Row template in React Treegrid component

The [rowTemplate](#) has an option to customise the look and behavior of the treegrid rows. The [rowTemplate](#) property accepts either the template string or HTML element ID.

APP.JSX

```

{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { textdata } from './datasource';
export default class App extends React.Component {
  treegridTemplate(props) {
    var src = './' + props.FullName + '.png';
    return <tr>
      <td className="border" style={{ paddingLeft: '18px' }}>

```

```

        <div>{props.EmpID}</div>
      </td>
      <td className="border" style={{ padding: '10px 0px 0px 20px' }}>
        <div style={{ fontSize: '14px' }}>
          {props.Name}
          <p style={{ fontSize: '9px' }}>{props.Designation}</p>
        </div>
      </td>
      <td className="border">
        <div>
          <div style={{ position: 'relative', display: 'inline-block' }}>
            <img src={src}/>
          </div>
          <div style={{ display: 'inline-block' }}>
            <div style={{ padding: '5px' }}>{props.Address}</div>
            <div style={{ padding: '5px' }}>{props.Country}</div>
            <div style={{ padding: '5px', fontSize: '12px' }}>{props.Contact}</div>
          </div>
        </div>
      </td>
    </tr>);
  }
  template = this.treegridTemplate;
  render() {
    return <TreeGridComponent dataSource={textdata}
      childMapping='Children' rowTemplate={this.template.bind(this)}
      treeColumnIndex={0} rowHeight='83' height='291'>
      <ColumnsDirective>
        <ColumnDirective headerText='Employee ID' width='180'
          field='EmpID'></ColumnDirective>
        <ColumnDirective headerText='Employee Name' width='150'
          field='Name'></ColumnDirective>
        <ColumnDirective headerText='Employee Details' width='350'
          field='Address'></ColumnDirective>
      </ColumnsDirective>
    </TreeGridComponent>;
  }
}
{% endraw %}

```

APP.TSX

```

{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { textdata } from './datasource';
export default class App extends React.Component<{}, {}>{
  public treegridTemplate(props): any {
    var src = './' + props.FullName + '.png';
    return <tr>
      <td className="border" style={{paddingLeft:'18px'}}>

```



```

        <div>{props.EmpID}</div>
      </td>
      <td className="border" style={{padding: '10px 0px 0px 20px'}}>
        <div style={{fontSize: '14px'}}>
          {props.Name}
          <p style={{fontSize: '9px'}}>{props.Designation}</p>
        </div>
      </td>
      <td className="border">
        <div>
          <div style={{position: 'relative' , display: 'inline-block'}}>
            <img src ={src} />
          </div>
          <div style={{display: 'inline-block'}}>
            <div style={{padding: '5px'}}>{props.Address}</div>
            <div style={{padding: '5px'}}>{props.Country}</div>
            <div style={{padding: '5px' , fontSize:
'12px'}}>{props.Contact}</div>
          </div>
        </div>
      </td>
    </tr>;
  }
  public template: any = this.treegridTemplate;
  public render() {
    return <TreeGridComponent dataSource={textdata} childMapping =
'Children' rowTemplate={this.template.bind(this)} treeColumnIndex={0}
rowHeight = '83' height='291'>
      <ColumnsDirective>
        <ColumnDirective headerText = 'Employee ID' width = '180'
field = 'EmpID'></ColumnDirective>
        <ColumnDirective headerText = 'Employee Name' width = '150'
field = 'Name'></ColumnDirective>
        <ColumnDirective headerText = 'Employee Details' width =
'350' field = 'Address'></ColumnDirective>
      </ColumnsDirective>
    </TreeGridComponent>
  }
}
{% endraw %}

```

The [rowTemplate](#) property accepts only the TR element.

Row template with formatting

If the [rowTemplate](#) is used, the value cannot be formatted inside the template using the [columns.format](#) property. In that case, a function should be defined globally to format the value and invoke it inside the template.

APP.JSX

```

{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { textdata } from './datasource';

```

```

import { Internationalization } from '@syncfusion/ej2-base';
let instance = new Internationalization();
export default class App extends React.Component {
    format = (value) => {
        return instance.formatDate(value, { skeleton: 'yMd', type: 'date'
    });
};
treegridTemplate(props) {
    var src = './' + props.FullName + '.png';
    return (<tr>
        <td className="border" style={{ paddingLeft: '18px' }}>
            <div>{props.EmpID}</div>
        </td>
        <td className="border">
            <div>
                <div style={{ position: 'relative', display: 'inline-
block' }}>
                    <img src={src}/>
                </div>
                <div style={{ display: 'inline-block' }}>
                    <div style={{ padding: '5px'
}}>{props.Address}</div>
                    <div style={{ padding: '5px'
}}>{props.Country}</div>
                    <div style={{ padding: '5px', fontSize: '12px'
}}>{props.Contact}</div>
                </div>
            </td>
            <td className="border" style={{ paddingLeft: '20px' }}>
                <div>{this.format(props.DOB)}</div>
            </td>
        </tr>);
    }
    template = this.treegridTemplate;
    render() {
        return <TreeGridComponent dataSource={textdata}
childMapping='Children' rowTemplate={this.template.bind(this)}
treeColumnIndex={0} rowHeight='83' height='291'>
            <ColumnsDirective>
                <ColumnDirective headerText='Employee ID' width='180'
field='EmpID'></ColumnDirective>
                <ColumnDirective headerText='Employee Details' width='350'
field='Address'></ColumnDirective>
                <ColumnDirective headerText='DOB' width='150'
field='DOB'></ColumnDirective>
            </ColumnsDirective>
        </TreeGridComponent>;
    }
}
{% endraw %}

```

APP.TSX

```
{% raw %}
```

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { textdata } from './datasource';
import { Internationalization } from '@syncfusion/ej2-base';
let instance: Internationalization = new Internationalization();
interface DateFormat extends Window {
    format?: Function;
}
export default class App extends React.Component<{}, {}>{
    public format = (value: Date) => {
        return instance.formatDate(value, { skeleton: 'yMd', type: 'date'
    });
    }
    public treegridTemplate(props): any {
        var src = './' + props.FullName + '.png';
        return (<tr>
            <td className="border" style={{paddingLeft: '18px'}}>
                <div>{props.EmpID}</div>
            </td>
            <td className="border">
                <div>
                    <div style={{position: 'relative' , display: 'inline-
block'}}>
                        <img src ={src} />
                    </div>
                    <div style={{display: 'inline-block'}}>
                        <div style={{padding: '5px'}}>{props.Address}</div>
                        <div style={{padding: '5px'}}>{props.Country}</div>
                        <div style={{padding: '5px' , fontSize:
'12px'}}>{props.Contact}</div>
                    </div>
                </div>
            </td>
            <td className="border" style={{paddingLeft: '20px'}}>
                <div>{this.format(props.DOB)}</div>
            </td>
        </tr>);
    }
    public template: any = this.treegridTemplate;
    public render() {
        return <TreeGridComponent dataSource={textdata} childMapping =
'Children' rowTemplate={this.template.bind(this)} treeColumnIndex={0}
rowHeight = '83' height='291'>
            <ColumnsDirective>
                <ColumnDirective headerText = 'Employee ID' width = '180'
field = 'EmpID'></ColumnDirective>
                <ColumnDirective headerText = 'Employee Details' width =
'350' field = 'Address'></ColumnDirective>
                <ColumnDirective headerText = 'DOB' width = '150' field =
'DOB'></ColumnDirective>
            </ColumnsDirective>
        </TreeGridComponent>
    }
}
{% endraw %}

```

Limitations

Row template feature is not compatible with all the features which are available in treegrid and it has limited features support. Here we have listed out the features which are compatible with row template feature.

- Filtering
- Paging
- Sorting
- Scrolling
- Searching
- Rtl
- Context Menu
- State Persistence

Detail template in React Treegrid component

The detail template provides additional information about a particular row. By expanding the parent row the child rows are expanded along with their detail template. The [detailTemplate](#) property accepts either the template string or HTML element ID.

To use detail template, inject the DetailRow module in the TreeGrid.

APP.JSX

```
{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent, DetailRow,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { textdata } from './datasource';
import { Internationalization } from '@syncfusion/ej2-base';
let instance = new Internationalization();
export default class App extends React.Component {
  format = (value) => {
    return instance.formatDate(value, { skeleton: 'yMd', type: 'date'
});
  };
  detailtemplate(props) {
    var imag = './' + props.FullName + '.png';
    return (<div>
      <div style={{ position: 'relative', display: 'inline-block',
float: 'left', padding: '5px 4px 2px 27px' }}>
        <img src={imag}/>
      </div>
      <div style={{ paddingLeft: '10px', display: 'inline-block',
width: '66%', fontSize: '13px', fontFamily: 'Segoe UI' }}>
        <div className="e-description" style={{ marginTop: '5px'
}}>
          <b>{props.Name}</b> was born on
{this.format(props.DOB)}. Now lives at {props.Address}, {props.Country}.
{props.Name} holds a position of <b>{props.Designation}</b> in our WA
department, (Seattle USA).</div>
        <div className="e-description" style={{ marginTop: '5px'
}}>
    {% endraw %}
```

```

        <b style={{ marginRight: '10px'
    }}>Contact:</b>{props.Contact}
    </div>
  </div>
</div>);
}
template = this.detailtemplate;
render() {
  return (<div className='control-pane'>
    <div className='control-section'>
      <TreeGridComponent dataSource={textdata}
childMapping='Children' detailTemplate={this.template.bind(this)}
treeColumnIndex={0}>
        <ColumnsDirective>
          <ColumnDirective headerText='Full Name'
width='170' field='Name'></ColumnDirective>
          <ColumnDirective field='Designation'
headerText='Designation' width='180'></ColumnDirective>
          <ColumnDirective field='EmpID'
headerText='EmployeeID' width='110'></ColumnDirective>
          <ColumnDirective field='Country'
headerText='Country' width='90'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[DetailRow]}>
      </TreeGridComponent>
    </div>
  </div>);
}
}
{% endraw %}

```

APP.TSX

```

{% raw %}
import { ColumnDirective, ColumnsDirective, TreeGridComponent, DetailRow,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { textdata } from './datasource';
import { Internationalization } from '@syncfusion/ej2-base';
let instance: Internationalization = new Internationalization();
interface DateFormat extends Window {
  format?: Function;
}
export default class App extends React.Component<{}, {}>{
  public format = (value: Date) => {
    return instance.formatDate(value, { skeleton: 'yMd', type: 'date'
});
  }
  public detailtemplate(props): any {
    var imag = './' + props.FullName + '.png';
    return (
      <div>
        <div style={{ position: 'relative', display: 'inline-block',
float: 'left', padding: '5px 4px 2px 27px' }} >
          <img src={imag} />
        </div>
      </div>
    );
  }
}
{% endraw %}

```

```

        <div style={{ paddingLeft: '10px', display: 'inline-block',
width: '66%', fontSize: '13px', fontFamily: 'Segoe UI' }}>
            <div className="e-description" style={{ marginTop: '5px'
}}}>
                <b>{props.Name}</b> was born on
{this.format(props.DOB)}. Now lives at {props.Address}, {props.Country}.
{props.Name} holds a position of <b>{props.Designation}</b> in our WA
department, (Seattle USA).</div>
                <div className="e-description" style={{ marginTop: '5px'
}}}>
                    <b style={{ marginRight: '10px'
}}}>Contact:</b>{props.Contact}
                </div>
            </div>
        </div>
    );
}
public template: any = this.detailtemplate;
render() {
    return (
        <div className='control-pane'>
            <div className='control-section'>
                <TreeGridComponent dataSource={textdata}
childMapping='Children' detailTemplate={this.template.bind(this)}
treeColumnIndex={0}>
                    <ColumnsDirective>
                        <ColumnDirective headerText='Full Name'
width='170' field='Name'></ColumnDirective>
                        <ColumnDirective field='Designation'
headerText='Designation' width='180'></ColumnDirective>
                        <ColumnDirective field='EmpID'
headerText='EmployeeID' width='110'></ColumnDirective>
                        <ColumnDirective field='Country'
headerText='Country' width='90'></ColumnDirective>
                    </ColumnsDirective>
                    <Inject services={[DetailRow]} />
                </TreeGridComponent>
            </div>
        </div>
    )
}
}
{% enddraw %}

```

Row drag and drop in React Treegrid component

The TreeGrid rows can be reordered, dropped to another TreeGrid or custom control by enabling the [allowRowDragAndDrop](#) to true.

To use row drag and drop, inject the **RowDD** module in the TreeGrid.

Drag and drop within Tree Grid

The TreeGrid row drag and drop allows you to drag and drop TreeGrid rows on the same TreeGrid using drag icon. To enable row drag and drop, set the [allowRowDragAndDrop](#) to true. It provides the way to drop the row above, below or child to the target row with respective to the target row position.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, RowDD
} from '@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
class App extends React.Component {
  selectionSettings = { type: 'Multiple' };
  render() {
    return <TreeGridComponent dataSource={sampleData}
allowRowDragAndDrop={true} treeColumnIndex={1} childMapping='subtasks'
height='270' selectionSettings={this.selectionSettings}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[RowDD]} />
    </TreeGridComponent>;
  }
}
ReactDOM.render(<App />, document.getElementById('treegrid'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
RowDD, RowDropSettingsModel, SelectionSettingsModel } from '@syncfusion/ej2-
react-treegrid';
import { sampleData } from './datasource';
class App extends React.Component<{}, {}>{
  public selectionSettings: SelectionSettingsModel = { type: 'Multiple' };
  render() {
    return <TreeGridComponent dataSource={sampleData}
allowRowDragAndDrop={true} treeColumnIndex={1} childMapping='subtasks'
height='270' selectionSettings={this.selectionSettings} >
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[RowDD]} />
    </TreeGridComponent>
  }
}

```

```
}
ReactDOM.render(<App />, document.getElementById('treegrid'));
```

- * Selection feature must be enabled for row drag and drop.
- * Multiple rows can be selected by clicking and dragging inside the treegrid.
- * For multiple row selection, the [type](#) property must be set to **multiple**.
- * The [isPrimaryKey](#) property is necessary to perform row drag and drop operation.

Drag and drop to another Tree Grid

To drag and drop between two TreeGrid, enable the [allowRowDragAndDrop](#) property and specify the target TreeGrid ID in [targetID](#) property of rowDropSettings.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeGridComponent, RowDD, ColumnsDirective, ColumnDirective, Inject
} from '@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
class Source extends React.Component {
  data = sampleData;
  rowDropSettings = { targetID: 'DestGrid' };
  selectionSettings = { type: 'Multiple' };
  style = { marginBottom: '20px' };
  render() {
    return <TreeGridComponent id='TreeGrid' dataSource={sampleData}
treeColumnIndex={1} allowRowDragAndDrop={true}
rowDropSettings={this.rowDropSettings}
selectionSettings={this.selectionSettings} childMapping='subtasks'
height='275'>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[RowDD]} />
    </TreeGridComponent >;
  }
}
class Target extends React.Component {
  data = [];
  rowDropSettings = { targetID: 'TreeGrid' };
  selectionSettings = { type: 'Multiple' };
  render() {
    return <TreeGridComponent treeColumnIndex={1} id='DestGrid'
allowRowDragAndDrop={true} rowDropSettings={this.rowDropSettings}
selectionSettings={this.selectionSettings} childMapping='subtasks'
height='275'>
      <ColumnsDirective>
```



```

        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[RowDD]} />
</TreeGridComponent>;
    }
}

function App() {
    return <div>
        <Source></Source>
        <Target></Target>
    </div>;
}
ReactDOM.render(<App />, document.getElementById('treegrid'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeGridComponent, RowDD, ColumnsDirective, ColumnDirective,
RowDropSettingsModel, SelectionSettingsModel, Inject } from
'@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
class Source extends React.Component<{}, {}>{
    public data: Object[] = sampleData;
    public rowDropSettings: RowDropSettingsModel = { targetID: 'DestGrid' };
    public selectionSettings: SelectionSettingsModel = { type: 'Multiple' };
    public style = { marginBottom: '20px' };
    render() {
        return <TreeGridComponent id='TreeGrid' dataSource={sampleData}
treeColumnIndex={1} allowRowDragAndDrop={true}
rowDropSettings={this.rowDropSettings}
selectionSettings={this.selectionSettings}
childMapping='subtasks' height='275'>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[RowDD]} />
        </TreeGridComponent>
    }
}
class Target extends React.Component<{}, {}>{

```

```

    public data: Object[] = [];
    public rowDropSettings: RowDropSettingsModel = { targetID: 'TreeGrid' };
    public selectionSettings: SelectionSettingsModel = { type: 'Multiple' };
    render() {
        return <TreeGridComponent treeColumnIndex={1} id='DestGrid'
allowRowDragAndDrop={true}
        rowDropSettings={this.rowDropSettings}
selectionSettings={this.selectionSettings}
        childMapping='subtasks' height='275'>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={ [RowDD] }/>
        </TreeGridComponent>
    }
}
function App() {
    return <div>
        <Source></Source>
        <Target></Target>
    </div>
}
ReactDOM.render(<App />, document.getElementById('treegrid'));

```

Drag and drop events

The following events are triggered while drag and drop the treegrid rows.

[rowDragStartHelper](#) - Triggers when click the drag icon or treegrid row and this event is used to customize the drag element based on user criteria.

[rowDragStart](#) - Triggers when starts to drag the treegrid row.

[rowDrag](#) - Triggers while dragging the treegrid row.

[rowDrop](#) - Triggers when a drag element is dropped on the target element.

Prevent reordering a row as child to another row

You can prevent the default behavior of dropping rows as children to the target by setting the **cancel** property to **true** in [rowDrop](#) event argument. You can also change the drop position after cancelling using [reorderRows](#) method.

In the below example drop action is cancelled and dropped above to target row.

INDEX.JSX

```

import * as React from 'react';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject, RowDD
} from '@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
class App extends React.Component {

```

```

    rowDrop(args) {
      if (args.dropPosition == 'middleSegment') {
        args.cancel = true;
        this.treegridInstance.reorderRows([args.fromIndex],
args.dropIndex, 'above');
      }
      render();
    }
    {
      return <TreeGridComponent ref={ (treegrid) =>
        (this.treegridInstance = treegrid)} allowRowDragAndDrop={true}
        dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
        height='270' rowDrop={this.rowDrop.bind(this)}>
        <ColumnsDirective>
          <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
          <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
          <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
          <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[RowDD]} />
      </TreeGridComponent>;
    }
  }
}
ReactDOM.render(<App />, document.getElementById('treegrid'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
RowDD, RowDropSettingsModel, SelectionSettingsModel } from '@syncfusion/ej2-
react-treegrid';
import { sampleData } from './datasource';
class App extends React.Component<{}, {}>{
  public treegridInstance: TreeGridComponent;
  public rowDrop(args: any) {
    if (args.dropPosition == 'middleSegment') {
      args.cancel = true;
      this.treegridInstance.reorderRows([args.fromIndex],
args.dropIndex, 'above');
    }
  }
  render() {
    return <TreeGridComponent ref={ (treegrid) => (this.treegridInstance
= treegrid)} allowRowDragAndDrop={true} dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks' height='270'
rowDrop={this.rowDrop.bind(this)} >
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right'></ColumnDirective>
      <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>

```

```

        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[RowDD]} />
</TreeGridComponent>
}
}
ReactDOM.render(<App />, document.getElementById('treegrid'));

```

Indent in React Treegrid component

The Indent and Outdent feature will help to change the hierarchy level of rows in tree grid. The indent action moves the selected row as the last child of its previous row, whereas the outdent action moves the selected row as a sibling to its parent row.

To use the indent and outdent feature, inject the **RowDD** module in the Tree Grid. The tree grid toolbar has the built-in items to execute indent and outdent actions. Define this by using the toolbar property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, RowDD, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['Indent', 'Outdent'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' selectedRowIndex={2} height='270'
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='priority' headerText='Priority'
width='90'/>
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right'/>
        </ColumnsDirective>
        <Inject services={[Toolbar, RowDD]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, RowDD, Toolbar, ToolbarItems } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';

```

```
function App() {
  const toolbarOptions: ToolbarItems[] = ['Indent', 'Outdent'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' selectedRowIndex={2} height='270'
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180'/>
      <ColumnDirective field='priority' headerText='Priority'
      width='90'/>
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right'/>
    </ColumnsDirective>
    <Inject services={[Toolbar, RowDD]}/>
  </TreeGridComponent>
};
export default App;
```

Indent/Outdent a row programmatically

You can change the hierarchy level of record programmatically using `indent` and `outdent` methods.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Inject, RowDD } from '@syncfusion/ej2-react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const Indenting = () => {
    treegrid.indent(treegrid.current.getCurrentViewRecords()[2]);
  };
  const Outdenting = () => {
    treegrid.outdent(treegrid.current.getCurrentViewRecords()[2]);
  };
  return (<div>
    <ButtonComponent onClick={Indenting}>
      Indent
    </ButtonComponent>
    <ButtonComponent onClick={Outdenting}>
      Outdent
    </ButtonComponent>
    <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' selectedRowIndex={2} height='270' ref={g => treegrid
    = g}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180'/>
        <ColumnDirective field='priority' headerText='Priority'
        width='90'/>

```

```

        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[RowDD]} />
    </TreeGridComponent>
  </div>);
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, RowDD } from '@syncfusion/ej2-react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const Indenting = () => {
    treegrid.indent((treegrid.current as
any).getCurrentViewRecords()[2]);
  }
  const Outdenting = () => {
    treegrid.outdent((treegrid.current as
any).getCurrentViewRecords()[2]);
  }
  return (
    <div>
      <ButtonComponent onClick={Indenting}>
        Indent
      </ButtonComponent>
      <ButtonComponent onClick={Outdenting}>
        Outdent
      </ButtonComponent>
      <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' selectedRowIndex={2} height='270' ref={g => treegrid
= g}>
        <ColumnsDirective>
          <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true} />
          <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
          <ColumnDirective field='priority' headerText='Priority'
width='90' />
          <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[RowDD]} />
      </TreeGridComponent>
    </div>);
};
export default App;

```

Cell

Cell in React Treegrid component

Customize cell styles

The appearance of cells can be customized by using the [queryCellInfo](#) event. The [queryCellInfo](#) event triggers for every cell. In that event handler, you can get [QueryCellInfoEventArgs](#) that contains the details of the cell.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const customizeCell = (args) => {
        const cell = args.cell;
        if (args.column.field === 'progress' && +cell.innerHTML > 90 &&
            +cell.innerHTML <= 100) {
            cell.setAttribute('style', 'background-
color:#336c12;color:white;');
        }
        else if (+cell.innerHTML > 20 && args.column.field === 'progress') {
            cell.setAttribute('style', 'background-
color:#7b2b1d;color:white;');
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='300' queryCellInfo={customizeCell}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress'
            width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { QueryCellInfoEventArgs } from '@syncfusion/ej2-grids';
import { Column, ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const customizeCell = (args: QueryCellInfoEventArgs) => {
        const cell : HTMLTableCellElement = args.cell as
HTMLTableCellElement;
```

```

        if ((args.column as Column).field === 'progress' && +cell.innerHTML
> 90 &&
            +cell.innerHTML <= 100) {
            cell.setAttribute('style', 'background-
color:#336c12;color:white;');
        } else if (+cell.innerHTML > 20 && (args.column as Column).field ===
'progress') {
            cell.setAttribute('style', 'background-
color:#7b2b1d;color:white;');
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='300'
    queryCellInfo={customizeCell}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```

Custom attributes

You can customize the treegrid cells by adding a CSS class to the [customAttribute](#) property of the column.

```

`css
.e-attr {
background: #d7f0f4;
}
`ts
const customAttr = {class: 'e-attr'};
<ColumnDirective
field="taskID" headerText="Task ID" customAttributes={customAttr} width="90" textAlign='Right' />

```

In the below example, we have customized the cells of *TaskID* and *StartDate* columns.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';

```



```
import './custom.css';
import { sampleData } from './datasource';
function App() {
  const customAttr = { class: 'e-attr' };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='300'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID'
      customAttributes={customAttr} width='90' textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      customAttributes={customAttr} width='90' format='yMd' textAlign='Right'
      type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const customAttr = {class: 'e-attr'};
  return <TreeGridComponent dataSource={sampleData}
  treeColumnIndex={1} childMapping='subtasks' height='300'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID'
      customAttributes={customAttr} width='90' textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      customAttributes={customAttr} width='90' format='yMd' textAlign='Right'
      type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;
```

TreeGrid lines

The [gridLines](#) have option to display cell border and it can be defined by the [gridLines](#) property.

The available modes of grid lines are:

| Modes | Actions |

|-----|-----|

- | Both | Displays both the horizontal and vertical grid lines.
- | None | No grid lines are displayed.
- | Horizontal | Displays the horizontal grid lines only.
- | Vertical | Displays the vertical grid lines only.
- | Default | Displays grid lines based on the theme.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='300' gridLines='Both'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
  textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='300' gridLines='Both'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
  textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;
```

By default, the treegrid renders with **Default** mode.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Content in React Treegrid component

The HTML tags can be displayed in the TreeGrid header and content by enabling the [disableHtmlEncode](#) property.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { htmlData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={htmlData} treeColumnIndex={1}
    childMapping='subtasks' height='300'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='<span> Task ID
</span>' width='160' textAlign='Right' disableHtmlEncode={true}/>
      <ColumnDirective field='taskName' headerText='<span> Task Name
</span>' width='180' disableHtmlEncode={false}/>
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { htmlData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={htmlData} treeColumnIndex={1}
    childMapping='subtasks' height='300'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='<span> Task ID
</span>' width='160' textAlign='Right' disableHtmlEncode={true}/>
      <ColumnDirective field='taskName' headerText='<span> Task Name
</span>' width='180' disableHtmlEncode={false}/>
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
export default App;
```

Auto wrap in React Treegrid component

The auto wrap allows the cell content of the treegrid to wrap to the next line when it exceeds the boundary of the cell width. The Cell Content wrapping works based on the position of white space between words. To enable auto wrap, set the [allowTextWrap](#) property to **true**. You can configure the auto wrap mode by setting the [textWrapSettings.wrapMode](#) property.

There are three types of **wrapMode**. They are:

- **Both:** This value is set by default. Auto wrap will be enabled for both the content and the header.
- **Header:** Auto wrap will be enabled only for the header.
- **Content:** Auto wrap will be enabled only for the content.

Note: When a column width is not specified, then auto wrap of columns will be adjusted with respect to the treegrid's width.

In the following example, the **textWrapSettings.wrapMode** is set to *Content*.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings = { wrapMode: 'Content' };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='300' allowTextWrap={true}
    textWrapSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='90' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { TextWrapSettingsModel } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings: TextWrapSettingsModel = { wrapMode: 'Content' };
}
```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='300' allowTextWrap={true}
    textWrapSettings={settings}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name '
        width='90' />
        <ColumnDirective field='startDate' headerText='Start Date '
        width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>
  };
  export default App;

```

Clip mode in React Treegrid component

The clip mode provides options to display its overflow cell content and it can be defined by the [columns.clipMode](#) property.

There are three types of [clipMode](#). They are:

- **Clip:** Truncates the cell content when it overflows its area.
- **Ellipsis:** Displays ellipsis when the cell content overflows its area.
- **EllipsisWithTooltip:** Displays ellipsis when the cell content overflows its area, also it will display the tooltip while hover on ellipsis is applied.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { complexData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={complexData} treeColumnIndex={1}
  childMapping='subtasks' height='300' gridLines='Both'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name '
      width='70' clipMode='Clip' />
      <ColumnDirective field='assignee.firstName' headerText='Assignee '
      width='30' textAlign='Right' clipMode='Ellipsis' />
      <ColumnDirective field='priority' headerText='Priority' width='30'
      textAlign='Right' clipMode='EllipsisWithTooltip' />
      <ColumnDirective field='duration' headerText='Duration' width='30'
      textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { complexData } from '../datasource';
function App() {
    return <TreeGridComponent dataSource={complexData} treeColumnIndex={1}
    childMapping='subtasks' height='300' gridLines='Both'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='70' clipMode='Clip' />
            <ColumnDirective field='assignee.firstName' headerText='Assignee'
            width='30' textAlign='Right' clipMode='Ellipsis' />
            <ColumnDirective field='priority' headerText='Priority' width='30'
            textAlign='Right' clipMode='EllipsisWithTooltip' />
            <ColumnDirective field='duration' headerText='Duration' width='30'
            textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;
```

By default, [columns.clipMode](#) value is **Ellipsis**.

Editing**Edit in React Treegrid component**

The TreeGrid component has options to dynamically insert, delete and update records. Editing feature is enabled by using [editSettings](#) property and it requires a primary key column for CRUD operations. To define the primary key, set [columns.isPrimaryKey](#) to [Link to the Video](#) in particular column.

To get start quickly with CRUD functionalities, you can check on this video:

To use CRUD, inject the [Edit](#) module in treegrid.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' isPrimaryKey={true} />
        </ColumnsDirective>
    </TreeGridComponent>
};
```

```

        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='priority' headerText='Priority'
width='90' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, EditSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
editSettings={editOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true} />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='priority' headerText='Priority' width='90'
/>
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Edit]} />
    </TreeGridComponent>
};
export default App;

```

* You can disable editing for a particular column, by specifying [columns.allowEditing](#) to false.

Toolbar with edit option

The treegrid toolbar has the built-in items to execute Editing actions. You can define this by using the [toolbar](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';

```

```

import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Row'
  };
  const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' editSettings={editOptions}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180'/>
      <ColumnDirective field='priority' headerText='Priority'
      width='90'/>
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right'/>
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]}/>
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, EditSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, Inject, Toolbar, ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Row'
  };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270'
  editSettings={editOptions} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180'/>
      <ColumnDirective field='priority' headerText='Priority' width='90'
      />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;

```



```

        <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Edit,Toolbar]} />
    </TreeGridComponent>
  };
  export default App;

```

Adding row position

The TreeGrid control provides the support to add the new row in the top, bottom, above selected row, below selected row and child position of tree grid content using [editSettings.newRowPosition](#) property. By default, a new row will be added at the top of the treegrid.

The following examples shows how to set new row position as *Child* in tree grid.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell',
    newRowPosition: 'Child'
  };
  const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' editSettings={editOptions}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='130' format='yMd' textAlign='Right' type='date'
      editType='datepickeredit' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';

```

```

import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell',
        newRowPosition: 'Child'
    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
editSettings={editOptions} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>
};
export default App;

```

Confirmation messages

Delete confirmation

The delete confirm dialog can be shown when deleting a record by defining the [showDeleteConfirmDialog](#) as **true**

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell',
        showDeleteConfirmDialog: true
    };
    const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];

```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions}
    toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180'/>
        <ColumnDirective field='startDate' headerText='Start Date'
        width='130' format='yMd' textAlign='Right' type='date'
        editType='datepickeredit'/>
        <ColumnDirective field='duration' headerText='Duration' width='80'
        textAlign='Right'/>
      </ColumnsDirective>
      <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell',
    showDeleteConfirmDialog: true
  };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
  'Cancel'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270'
  editSettings={editOptions} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180'/>
      <ColumnDirective field='startDate' headerText='Start Date'
      width='130' format='yMd' textAlign='Right' type='date'
      editType='datepickeredit' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]}/>
  </TreeGridComponent>
};
export default App;

```

The [showDeleteConfirmDialog](#) supports all type of edit modes.

Default column values on add new

The treegrid provides an option to set the default value for the columns when adding a new record in it. To set a default value for the particular column by defining the [columns.defaultValue](#).

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell'
    };
    const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions}
    toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' textAlign='Right' editType='datepickeredit' format='yMd'
            type='date'/>
            <ColumnDirective field='priority' headerText='Priority'
            width='110' editType='dropdownedit' defaultValue='Normal'/>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell'
    };
    const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions}
    toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' textAlign='Right' editType='datepickeredit' format='yMd'
            type='date'/>
            <ColumnDirective field='priority' headerText='Priority'
            width='110' editType='dropdownedit' defaultValue='Normal'/>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;
```

```

    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
    'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270'
    editSettings={editOptions} toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' textAlign='Right' editType='datepickeredit' format='yMd'
        type='date' />
        <ColumnDirective field='priority' headerText='Priority'
        width='110' editType='dropdownedit' defaultValue='Normal' />
      </ColumnsDirective>
      <Inject services={[Edit, Toolbar]} />
    </TreeGridComponent>
  };
  export default App;

```

Disable editing for particular column

You can disable editing for particular columns by using the [columns.allowEditing](#).

In the following demo, editing is disabled for the *Start Date* column.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell'
  };
  const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' editSettings={editOptions}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' allowEditing={false} textAlign='Right' editType='datepickeredit'
      format='yMd' type='date' />
      <ColumnDirective field='priority' headerText='Priority'
      width='110' editType='dropdownedit' />
    </ColumnsDirective>
  </TreeGridComponent>

```

```

        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell'
    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
editSettings={editOptions} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' allowEditing={false} textAlign='Right' editType='datepickeredit'
format='yMd' type='date' />
            <ColumnDirective field='priority' headerText='Priority'
width='110' editType='dropdownedit' />
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>
};
export default App;

```

Troubleshoot: Editing works only for first row

The Editing functionalities can be performed based upon the primary key value of the selected row.

If [column.primaryKey](#) is not defined in the treegrid, then edit or delete action take places the first row.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to knows how to present and manipulate data.

Edit types in React Treegrid component

Cell edit type and its params

The [columns.editType](#) is used to customize the edit type of the particular column. You can set the [columns.editType](#) based on data type of the column.

- `numericedit` - [NumericTextBox](#) component for integers, double, and decimal data types.
- `defaultedit` - [TextBox](#) component for string data type.
- `dropdownedit` - [DropDownList](#) component for list data type.
- `booleanedit` - [CheckBox](#) component for boolean data type.
- `datepickeredit` - [DatePicker](#) component for date data type.
- `datetimepickeredit` - [DateTimePicker](#) component for date time data type.

Also, you can customize model of the [columns.editType](#) component through the [columns.edit.params](#).

The following table describes cell edit type component and their corresponding edit params of the column.

Component | Example

[NumericTextBox](#) | params: { decimals: 2, value: 5 }

[TextBox](#) | -

[DropDownList](#) | params: { value: 'Germany' }

[Checkbox](#) | params: { checked: true }

[DatePicker](#) | params: { format: 'dd.MM.yyyy' }

[DateTimePicker](#) | params: { value: new Date() }

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Row' };
    const format = { type: 'dateTime', format: 'M/d/y hh:mm a' };
    const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
    const datetimeParams = { params: { format: 'M/d/y hh:mm a' } };
    const numericParams = { params: { format: 'n' } };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='100'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' editType='stringedit'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='180' textAlign='Right' edit={datetimeParams}
editType='datetimepickeredit' format={format}/>
            <ColumnDirective field='approved' headerText='Approved'
width='110' textAlign='Right' editType='booleanedit' type='boolean'
displayAsCheckBox={true}/>
            <ColumnDirective field='progress' headerText='Progress'
textAlign='Right' width='120' editType='numericedit' edit={numericParams}/>
        </ColumnsDirective>
    </TreeGridComponent>
```

```

        <ColumnDirective field='priority' headerText='Priority'
width='110' editType='dropdownedit' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { IEditCell } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true,
allowAdding: true, allowDeleting: true, mode: 'Row' };
    const format: any = { type: 'dateTime', format: 'M/d/y hh:mm a' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete',
'Update', 'Cancel'];
    const datetimeParams: IEditCell = { params: { format: 'M/d/y hh:mm a' }
};
    const numericParams: IEditCell = { params: { format: 'n' } };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='100'
textAlign='Right' isPrimaryKey={true} />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' editType='stringedit' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='180' textAlign='Right' edit={datetimeParams}
editType='datetimepickeredit' format={format} />
            <ColumnDirective field='approved' headerText='Approved'
width='110' textAlign='Right' editType='booleanedit' type='boolean'
displayAsCheckBox={true} />
            <ColumnDirective field='progress' headerText='Progress'
textAlign='Right' width='120' editType='numericedit' edit={numericParams} />
            <ColumnDirective field='priority' headerText='Priority'
width='110' editType='dropdownedit' />
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]} />
    </TreeGridComponent>
};
export default App;

```

If edit type is not defined in the column, then it will be considered as the *stringedit* type (Textbox component).

Cell edit template

The cell edit template is used to add a custom component for a particular column by invoking the following functions:

- **create** - It is used to create the element at time of initialization.
- **write** - It is used to create custom component or assign default value at time of editing.
- **read** - It is used to read the value from component at time of save.
- **destroy** - It is used to destroy the component.

APP.JSX

```
import { DataManager } from '@syncfusion/ej2-data';
import { AutoComplete } from '@syncfusion/ej2-dropdowns';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let elem;
    let autoCompleteObj;
    let treegridObj;
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Cell', newRowPosition: 'Below' };
    const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
    const editTemplate = {
        create: () => {
            elem = document.createElement('input');
            return elem;
        },
        destroy: () => {
            autoCompleteObj.destroy();
        },
        read: () => {
            return autoCompleteObj.value;
        },
        write: (args) => {
            if (treegridObj) {
                autoCompleteObj = new AutoComplete({
                    dataSource: new
DataManager(treegridObj.grid.dataSource),
                    fields: { value: 'taskName' },
                    value: args.rowData[args.column.field]
                });
                autoCompleteObj.appendTo(elem);
            }
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='400' editSettings={editOptions}
toolbar={toolbarOptions} ref={g => treegridObj = g}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='100'
textAlign='Right' isPrimaryKey={true}/>
        </ColumnsDirective>
    </TreeGridComponent>
```

```

        <ColumnDirective field='taskName' headerText='Task Name'
width='180' editType='stringedit' edit={editTemplate}/>
        <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

{% raw %}
import { DataManager } from '@syncfusion/ej2-data';
import { AutoComplete } from '@syncfusion/ej2-dropdowns';
import { IEditCell } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Column, Edit, EditSettingsModel, Toolbar, ToolbarItems, TreeGrid }
from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    let elem: HTMLElement;
    let autoCompleteobj: AutoComplete;
    let treegridObj: TreeGridComponent;
    const editOptions: EditSettingsModel = { allowEditing: true,
allowAdding: true, allowDeleting: true, mode: 'Cell', newRowPosition:
'Below' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
'Cancel'];
    const editTemplate : IEditCell = {
        create: ()=>{
            elem = document.createElement('input');
            return elem;
        },
        destroy: ()=>{
            autoCompleteobj.destroy();
        },
        read: ()=>{
            return autoCompleteobj.value;
        },
        write:(args:{rowData: object, column: Column})=>{
            if (treegridObj) {
                autoCompleteobj = new AutoComplete({
                    dataSource: new DataManager(treegridObj.grid.dataSource
as object[]),
                    fields: { value: 'taskName' },
                    value: args.rowData[args.column.field]
                });
                autoCompleteobj.appendTo(elem);
            }
        }
    }
}

```

```

    });
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
      height='400' editSettings={editOptions} toolbar={toolbarOptions}
      ref={g => treegridObj = g}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='100'
        textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' editType='stringedit' edit={editTemplate}/>
        <ColumnDirective field='startDate' headerText='Start Date'
        width='130' format='yMd' textAlign='Right' type='date'
        editType='datepickeredit' />
        <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Edit,Toolbar]}/>
    </TreeGridComponent>
  </>
  export default App;
  {% enddraw %}

```

Cell editing in React Treegrid component

In Cell edit mode, when you double click on a cell, it is changed to edit state. You can change the cell value and save to the data source. To enable Cell edit, set the [editSettings.mode](#) as **Cell**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell',
    newRowPosition: 'Below'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' editSettings={editOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180'/>
      <ColumnDirective field='startDate' headerText='Start Date'
      width='130' format='yMd' textAlign='Right' type='date'
      editType='datepickeredit'/>
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right'/>
    </ColumnsDirective>
    <Inject services={[Edit]}/>
  </TreeGridComponent>;

```

```

}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell',
    newRowPosition: 'Below'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    height='270' editSettings={editOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180'/>
      <ColumnDirective field='startDate' headerText='Start Date'
  width='130' format='yMd' textAlign='Right' type='date'
  editType='datepickeredit' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
  textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit]}/>
  </TreeGridComponent>
};
export default App;

```

Cell edit mode is default mode of editing.

Row editing in React Treegrid component

In Row edit mode, when you start editing the currently selected record, the entire row is changed to edit state. You can change the cell values of the row and save edited data to the data source. To enable Row edit, set the [editSettings.mode](#) as **Row**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,

```

```

        allowDeleting: true,
        allowEditing: true,
        mode: 'Row'
    };
    const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit'/>
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right'/>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Row'
    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete',
'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
        height='270' editSettings={editOptions} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

```

        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>
};
export default App;

```

Dialog editing in React Treegrid component

In Dialog edit mode, when you start editing the currently selected row, data will be shown on a dialog. You can change the cell values and save edited data to the data source. To enable Dialog edit, set the [editSettings.mode](#) as **Dialog**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Dialog'
    };
    const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit'/>
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right'/>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {

```

```

        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Dialog'
    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete',
'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    height='270' editSettings={editOptions} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>
};
export default App;

```

Batch editing in React Treegrid component

In Batch edit mode, when you double-click on the treegrid cell, the target cell goes into edit state. You can bulk save (added, changed and deleted data in the single request) to data source by clicking on the toolbar's **Update** button or by externally invoking the [batchSave](#) method. To enable Batch edit, set the [editSettings.mode](#) as **Batch**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Batch',
    };
    const toolbarOptions = ['Add', 'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />

```

```

        <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Batch',
    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Update', 'Cancel'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
height='270' editSettings={editOptions} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true} />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]} />
    </TreeGridComponent>
};
export default App;

```

Template editing in React Treegrid component

Dialog template

The dialog template editing provides an option to customize the default behavior of dialog editing. Using the dialog template, you can render your own editors by defining the [editSettings.mode](#) as [Link to the Video](#) and [template](#) as SCRIPT element ID or HTML string which holds the template.

In some cases, you need to add the new field editors in the dialog which are not present in the column model. In that situation, the dialog template will help you to customize the default edit dialog.

For quick details with dialog template, you can check on this video:

In the following sample, treegrid enabled with dialog template editing.

APP.JSX

```
import { setValue } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
import { DialogFormTemplate } from './template';
function App() {
    let treegrid;
    const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
    const dialogTemplate = (props) => {
        const obj = [props, treegrid];
        return (<DialogFormTemplate {...obj}/>);
    };
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Dialog',
        template: dialogTemplate
    };
    const actionComplete = (args) => {
        if ((args.requestType === 'beginEdit' || args.requestType === 'add')) {
            // Add Validation Rules
            const form = args.form;
            form.ej2_instances[0].addRules('progress', { max: 100 });
            if (args.requestType === 'beginEdit') {
                form.elements.namedItem('taskName').focus();
            }
        }
    };
    const actionBegin = (args) => {
        if (args.requestType === 'save') {
            // cast string to integer value.
            const val = args.form
                .querySelector("#progress").value;
            setValue('data.progress', parseFloat(val), args);
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions}
    toolbar={toolbarOptions} ref={g => treegrid = g} actionBegin={actionBegin}
    actionComplete={actionComplete}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180'/>
        </ColumnsDirective>
    </TreeGridComponent>
```

```

        <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services=[Edit, Toolbar] />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { setValue } from '@syncfusion/ej2-base';
import { DialogEditEventArgs } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
import { IOrderModel } from './orderModel';
import { DialogFormTemplate } from './template';
function App() {
    let treegrid: TreeGridComponent | null;
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete',
'Update', 'Cancel'];
    const dialogTemplate = (props: IOrderModel): any => {
        const obj = [props, treegrid];
        return (<DialogFormTemplate {...obj} />);
    }
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Dialog',
        template: dialogTemplate
    };
    const actionComplete = (args: DialogEditEventArgs) => {
        if ((args.requestType === 'beginEdit' || args.requestType === 'add'))
        {
            // Add Validation Rules
            const form: HTMLFormElement = args.form as HTMLFormElement;
            form.ej2_instances[0].addRules('progress', {max: 100});
            if (args.requestType === 'beginEdit') {
                (form.elements.namedItem('taskName') as
HTMLInputElement).focus();
            }
        }
    }
    const actionBegin = (args: DialogEditEventArgs) => {
        if (args.requestType === 'save') {
            // cast string to integer value.
            const val: string = ((args.form as HTMLFormElement)
                .querySelector("#progress") as HTMLInputElement).value;

```

```

        setValue('data.progress', parseFloat(val), args);
    }
}
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
    editSettings={editOptions} toolbar={toolbarOptions} ref={g =>
treegrid = g}
    actionBegin={actionBegin} actionComplete={actionComplete}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
        <ColumnDirective field='startDate' headerText='Start Date'
width='130' format='yMd' textAlign='Right' type='date'
editType='datepickeredit' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit,Toolbar]}/>
    </TreeGridComponent>
};
export default App;

```

ORDERMODEL.JSX

```
export {};
```

ORDERMODEL.TSX

```

export interface IOrderModel {
    taskID?: number;
    taskName?: string;
    priority?: string;
    progress?: number;
    startDate?: Date;
    endDate?: Date;
    isAdd?: boolean;
    approved?: boolean;
}

```

TEMPLATE.JSX

```

{% raw %}
import { DataUtil } from '@syncfusion/ej2-data';
import { CheckBoxComponent } from '@syncfusion/ej2-react-buttons';
import { DatePickerComponent } from '@syncfusion/ej2-react-calendars';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import { sampleData as orderData } from '../datasource';
export class DialogFormTemplate extends React.Component {
    priorityData = DataUtil.distinct(orderData, 'priority', true);
    constructor(props) {
        super(props);
    }
}

```

```

        this.state = Object.assign({}, props[0]);
    }
    onChange(args) {
        this.setState({ [args.target.name]: args.target.value });
    }
    render() {
        this.onChange = this.onChange.bind(this);
        const data = this.state;
        return (<div>
            <div className="form-row">
                <div className="form-group col-md-6">
                    <div className="e-float-input e-control-wrapper">
                        <input id="taskID" name="taskID"
disabled={!data.isAdd} type="text" value={data.taskID}
onChange={this.onChange}/>
                        <span className="e-float-line"/>
                        <label className="e-float-text e-label-top">Task
ID</label>
                    </div>
                </div>
                <div className="form-group col-md-6">
                    <div className="e-float-input e-control-wrapper">
                        <input id="taskName" name="taskName" type="text"
value={data.taskName} onChange={this.onChange}/>
                        <span className="e-float-line"/>
                        <label className="e-float-text e-label-top">Task
Name</label>
                    </div>
                </div>
            </div>
            <div className="form-row">
                <div className="form-group col-md-6">
                    <DropDownListComponent id="priority" value={data.priority}
dataSource={this.priorityData} fields={{ text: 'priority', value: 'priority'
}} placeholder="Priority" popupHeight='300px' floatLabelType='Always'/>
                </div>
                <div className="form-group col-md-6">
                    <NumericTextBoxComponent id="progress" format='n'
value={data.progress} placeholder="Progress" floatLabelType='Always'/>
                </div>
            </div>
            <div className="form-row">
                <div className="form-group col-md-6">
                    <div className="e-float-input e-control-wrapper">
                        <DatePickerComponent value={data.startDate}
floatLabelType='Always' placeholder="Start Date"/>
                        <span className="e-float-line"/>
                    </div>
                </div>
                <div className="form-group col-md-6">
                    <div className="e-float-input e-control-wrapper">
                        <DatePickerComponent value={data.endDate}
floatLabelType='Always' placeholder="End Date"/>
                        <span className="e-float-line"/>
                    </div>
                </div>
            </div>
        </div>
    )

```

```

        <div className="form-row">
            <div className="form-group col-md-6">
                <div className="e-float-input e-control-wrapper">
                    <CheckBoxComponent checked={data.approved}
label='Approved' />
                    <span className="e-float-line" />
                </div>
            </div>
        </div>
    </div>);
}
{% endraw %}

```

TEMPLATE.TSX

```

{% raw %}
import { DataUtil } from '@syncfusion/ej2-data';
import { CheckBoxComponent } from '@syncfusion/ej2-react-buttons';
import { DatePickerComponent } from '@syncfusion/ej2-react-calendars';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import { sampleData as orderData } from '../datasource';
import { IOrderModel } from '../orderModel';
export class DialogFormTemplate extends React.Component<{}, {}> {
    private priorityData: any = DataUtil.distinct(orderData, 'priority',
true );
    constructor(props: any) {
        super(props);
        this.state = Object.assign({}, props[0]);
    }
    public onChange(args: React.ChangeEvent) {
        this.setState({[(args.target as HTMLInputElement).name]:
(args.target as HTMLInputElement).value});
    }
    public render(): any {
        this.onChange = this.onChange.bind(this);
        const data: IOrderModel = this.state;
        return (<div>
            <div className="form-row">
                <div className="form-group col-md-6">
                    <div className="e-float-input e-control-wrapper">
                        <input id="taskID" name="taskID"
disabled={!data.isAdd} type="text" value={data.taskID}
onChange={this.onChange} />
                        <span className="e-float-line" />
                        <label className="e-float-text e-label-top">Task
ID</label>
                    </div>
                </div>
            </div>
            <div className="form-group col-md-6">
                <div className="e-float-input e-control-wrapper">
                    <input id="taskName" name="taskName" type="text"
value={data.taskName} onChange={this.onChange} />
                    <span className="e-float-line" />

```

```

        <label className="e-float-text e-label-top">Task
Name</label>
        </div>
    </div>
</div>
<div className="form-row">
    <div className="form-group col-md-6">
        <DropDownListComponent id="priority" value={data.priority}
dataSource={this.priorityData}
        fields={{text: 'priority', value: 'priority' }}
placeholder="Priority"
        popupHeight='300px' floatLabelType='Always' />
    </div>
    <div className="form-group col-md-6">
        <NumericTextBoxComponent id="progress" format='n'
value={data.progress}
        placeholder="Progress" floatLabelType='Always' />
    </div>
</div>
<div className="form-row">
    <div className="form-group col-md-6">
        <div className="e-float-input e-control-wrapper">
            <DatePickerComponent value={data.startDate}
floatLabelType='Always' placeholder="Start Date" />
            <span className="e-float-line" />
        </div>
    </div>
    <div className="form-group col-md-6">
        <div className="e-float-input e-control-wrapper">
            <DatePickerComponent value={data.endDate}
floatLabelType='Always' placeholder="End Date" />
            <span className="e-float-line" />
        </div>
    </div>
</div>
<div className="form-row">
    <div className="form-group col-md-6">
        <div className="e-float-input e-control-wrapper">
            <CheckBoxComponent checked={data.approved}
label='Approved' />
            <span className="e-float-line" />
        </div>
    </div>
</div>
</div>);
    }
}{{% enddraw %}}

```

The template form editors should have **name** attribute.

Template context

The template should be a React Component class. You can access the row information inside the Component class using *props*, you can bind the attribute or value based on this row information.

The following properties will be available at the time of template execution.

Property Name	Usage
isAdd	A Boolean property; it defines whether the current row should be a new record or not.

In the following code example, the *OrderID* textbox has been disabled by using the **isAdd** property.

```
,
```

```
// The disabled attributes will be added based on the isAdd property.
```

```
<input id="taskID" name="taskID" type="text" disabled={!data.isAdd} value={data.taskID}
onChange={this.onChange} />
```

```
,
```

The following code example illustrates rendering the *taskID* textbox, when a new record is added.

Get value from editor

You can read, format, and update the current editor value in the [actionBegin](#) event at the time of setting **requestType** to **save**.

In the following code example, the *progress* value has been formatted and updated.

```
`ts
```

```
const actionBegin = (args: DialogEditEventArgs) => {
  if (args.requestType === 'save') {
    // cast string to integer value.
    const val: string = ((args.form as HTMLFormElement)
      .querySelector("#progress") as HTMLInputElement).value;
    setValue('data.progress', parseFloat(val), args);
  }
}
```

```
,
```

Set focus to editor

By default, the first input element in the dialog will be focused while opening the dialog. If the first input element is in disabled or hidden state, focus the valid input element in the [actionComplete](#) event based on **requestType** as *beginEdit*.

```
`ts
```

```
const actionComplete = (args: DialogEditEventArgs) => {
  if ((args.requestType === 'beginEdit' || args.requestType === 'add')) {
    const form: HTMLFormElement = args.form as HTMLFormElement;
    if (args.requestType === 'beginEdit') {
      (form.elements.namedItem('taskName') as HTMLInputElement).focus();
    }
  }
}
```

```

}
}
}
,

```

Adding validation rules for custom editors

If you have used additional fields that are not present in the column model, then add the validation rules to them in the [actionComplete](#) event.

```

`ts
const actionComplete = (args: DialogEditEventArgs) => {
if ((args.requestType === 'beginEdit' || args.requestType === 'add')) {
// Add Validation Rules
const form: HTMLFormElement = args.form as HTMLFormElement;
form.ej2_instances[0].addRules('progress', {max: 100});
}
}
,

```

Command column editing in React Treegrid component

The command column provides an option to add CRUD action buttons in a column. This can be defined by the [column.commands](#) property.

The available built-in command buttons are:

Command Button	Actions
Edit	Edit the current row.
Delete	Delete the current row.
Save	Update the edited row.
Cancel	Cancel the edited state.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { CommandColumn, Edit } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const commands = [
    {
      buttonOption: { cssClass: 'e-flat', iconCss: 'e-edit e-icons' },
      type: 'Edit',
    },
    {

```



```

        buttonOption: { cssClass: 'e-flat', iconCss: 'e-delete e-icons'
    },
        type: 'Delete'
    },
    {
        buttonOption: { cssClass: 'e-flat', iconCss: 'e-update e-icons'
    },
        type: 'Save'
    },
    {
        buttonOption: { cssClass: 'e-flat', iconCss: 'e-cancel-icon e-
icons' },
        type: 'Cancel'
    }
    ];
    const editOptions = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Row'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right'/>
            <ColumnDirective headerText='Manage Records' width='130'
commands={commands}/>
        </ColumnsDirective>
        <Inject services={[Edit, CommandColumn]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { CommandModel } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { CommandColumn, Edit, EditSettingsModel } from '@syncfusion/ej2-
react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const commands: CommandModel[] = [
        {
            buttonOption: { cssClass: 'e-flat', iconCss: 'e-edit e-icons' },
            type: 'Edit',
        },
        {

```

```

        buttonOption: { cssClass: 'e-flat', iconCss: 'e-delete e-icons'
    },
        type: 'Delete'
    },
    {
        buttonOption: { cssClass: 'e-flat', iconCss: 'e-update e-icons'
    },
        type: 'Save'
    },
    {
        buttonOption: { cssClass: 'e-flat', iconCss: 'e-cancel-icon e-
icons' },
        type: 'Cancel'
    }
    ];
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Row'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
editSettings={editOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
            <ColumnDirective headerText='Manage Records' width='130' commands=
{commands}/>
        </ColumnsDirective>
        <Inject services={[Edit, CommandColumn]}/>
    </TreeGridComponent>
    };
    export default App;

```

Custom command

The custom command buttons can be added in a column by using the [column.commands](#) property and the action for the custom buttons can be defined in the [buttonOption.click](#) event.

APP.JSX

```

import { closest } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { CommandColumn, Edit } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions = { allowEditing: true, allowDeleting: true };
    const commands = [
        {
            buttonOption: {

```

```

        content: 'Details', cssClass: 'e-flat'
    }
    }
    ];
    let treegrid;
    const onClick = (args) => {
        if (treegrid) {
            const rowObj = treegrid.getRowObjectFromUID(closest(args.target,
            '.e-row')
            .getAttribute('data-uid'));
            const rowData = rowObj.data;
            alert(JSON.stringify(rowData));
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions} ref={g =>
    treegrid = g}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180'/>
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right'/>
            <ColumnDirective headerText='Commands' width='120'
            commands={commands}/>
        </ColumnsDirective>
        <Inject services={[Edit, CommandColumn]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { closest } from '@syncfusion/ej2-base';
import { Column, CommandModel, Row } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { CommandColumn, Edit, EditSettingsModel, TreeGrid } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true,
    allowDeleting: true };
    const commands: CommandModel[] = [
        {
            buttonOption: {
                content: 'Details', cssClass: 'e-flat'
            }
        }
    ];
    let treegrid: TreeGridComponent | null;

    const onClick = (args: Event): void => {

```

```

    if (treegrid) {
      const rowObj: Row<Column> =
        treegrid.getRowObjectFromUID(closest(args.target as Element, '.e-
row'))
      .getAttribute('data-uid') as string);
      const rowData: object = rowObj.data as object;
      alert(JSON.stringify(rowData));
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
editSettings={editOptions} ref={g => treegrid = g}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
    <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    <ColumnDirective headerText='Commands' width='120' commands=
{commands}/>
  </ColumnsDirective>
  <Inject services={[Edit, CommandColumn]}/>
</TreeGridComponent>
};
export default App;

```

Validation in React Treegrid component

Column validation

Column validation allows you to validate the edited or added row data and it display errors for invalid fields before saving data. TreeGrid uses **Form Validator** component for column validation. You can set validation rules by defining the [columns.validationRules](#).

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell',
    showDeleteConfirmDialog: true
  };
  const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
  const format = { type: 'dateTime', format: 'M/d/y hh:mm a' };
  const datetimeParams = { params: { format: 'M/d/y hh:mm a' } };
  const numericParams = { params: { format: 'n' } };
  const taskIDRules = { required: true, number: true };
  const progressRules = { number: true, min: 0 };
  const startDateRules = { date: true };

```

```

    const priorityRules = { required: true };
    const taskNameRules = { required: true };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true} validationRules={taskIDRules}/>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' validationRules={taskNameRules}/>
        <ColumnDirective field='startDate' headerText='Start Date'
width='150' textAlign='Right' edit={datetimeParams}
editType='datetimepickeredit' format={format}
validationRules={startDateRules}/>
        <ColumnDirective field='approved' headerText='Approved'
width='110' textAlign='Right' editType='booleanedit' type='boolean'
displayAsCheckBox={true}/>
        <ColumnDirective field='progress' headerText='Progress'
textAlign='Right' width='120' editType='numericedit' edit={numericParams}
validationRules={progressRules}/>
        <ColumnDirective field='priority' headerText='Priority'
width='110' editType='dropdownedit' validationRules={priorityRules}/>
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]}/>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { IEditCell } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Cell',
        showDeleteConfirmDialog: true
    };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
'Cancel'];
    const format: any = { type: 'dateTime', format: 'M/d/y hh:mm a' };
    const datetimeParams: IEditCell = { params: { format: 'M/d/y hh:mm a' }
};
    const numericParams: IEditCell = { params: { format: 'n' } };
    const taskIDRules: object = { required: true, number: true };
    const progressRules: object = { number: true, min: 0 };
    const startDateRules: object = { date: true };
    const priorityRules: object = { required: true };

```

```

const taskNameRules: object = { required: true };
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'
editSettings={editOptions} toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true} validationRules={taskIDRules}/>
    <ColumnDirective field='taskName' headerText='Task Name'
width='180' validationRules={taskNameRules}/>
    <ColumnDirective field='startDate' headerText='Start Date'
width='150' textAlign='Right' edit={datetimeParams}
editType='datetimepickeredit' format={format}
validationRules={startDateRules} />
    <ColumnDirective field='approved' headerText='Approved'
width='110' textAlign='Right' editType='booleanedit' type='boolean'
displayAsCheckBox={true} />
    <ColumnDirective field='progress' headerText='Progress'
textAlign='Right' width='120' editType='numericedit' edit={numericParams}
validationRules={progressRules} />
    <ColumnDirective field='priority' headerText='Priority'
width='110' editType='dropdownedit' validationRules={priorityRules} />
  </ColumnsDirective>
  <Inject services={[Edit, Toolbar]}/>
</TreeGridComponent>
};
export default App;

```

Custom validation

You can define your own custom validation rules for the specific columns by using **Form Validator custom rules**.

In the below demo, custom validation applied for *Priority* column.

APP.JSX

```

import { getValue } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell'
  };
  const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
  const customFn = (args) => {
    return getValue('value', args) <= 8;
  };
  const priorityRules = {
    minLength: [customFn, 'Value should be within 8 letters'],
    required: true
  };
};

```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='270' editSettings={editOptions}
    toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180'/>
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' textAlign='Right' editType='datepickeredit' format='yMd'
        type='date'/>
        <ColumnDirective field='duration' headerText='Duration'
        width='110' validationRules={priorityRules}/>
      </ColumnsDirective>
      <Inject services={[Edit, Toolbar]}/>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { getValue } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Toolbar, ToolbarItems } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const editOptions: EditSettingsModel = {
    allowAdding: true,
    allowDeleting: true,
    allowEditing: true,
    mode: 'Cell'
  };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
  'Cancel'];
  const customFn = (args: { [key: string]: string }) : boolean => {
    return getValue('value', args) <= 8;
  };
  const priorityRules: object = {
    minLength: [customFn, 'Value should be within 8 letters'],
    required: true
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' editSettings={editOptions}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180'/>
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' textAlign='Right' editType='datepickeredit' format='yMd'
      type='date'/>
    </ColumnsDirective>
  </TreeGridComponent>;
}

```

```

        <ColumnDirective field='duration' headerText='Duration'
width='110' validationRules={priorityRules}/>
        </ColumnsDirective>
        <Inject services={[Edit,Toolbar]}/>
    </TreeGridComponent>
};
export default App;

```

Persisting data in server in React Treegrid component

Edited data can be persisted in the database using the RESTful web services.

All the CRUD operations in the treegrid are done through [DataManager](#). The `DataManager` has an option to bind all the CRUD related data in server-side.

For your information, the ODataAdaptor persists data in the server as per OData protocol.

In the following section, we have explained how to perform CRUD operation in server-side using the [UrlAdaptor](#) and `RemoteSave Adaptor`.

URL adaptor

You can use the [UrlAdaptor](#) of `DataManager` when binding data source from remote data. In the initial load of treegrid, data are fetched from remote data and bound to the treegrid using `url` property of `DataManager`. You can map The CRUD operation in treegrid can be mapped to server-side Controller actions using the properties `insertUrl`, `removeUrl`, `updateUrl` and `batchUrl`.

The following code example describes the above behavior.

```

`ts
import { DataManager, UrlAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Inject, Toolbar, ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';

function App() {
  const editOptions: EditSettingsModel = { allowEditing: true, allowAdding: true, allowDeleting: true,
mode: 'Row', newRowPosition: 'Below' };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
  const dataManager: DataManager = new DataManager({
    adaptor: new UrlAdaptor,
    insertUrl: "Home/Insert",
    removeUrl: "Home/Delete",
    updateUrl: "Home/Update",
    batchUrl: "Home/Remove",
    url: "Home/DataSource",

```



```

});
return <TreeGridComponent dataSource={dataManager} treeColumnIndex={1} idMapping= 'TaskID'
parentIdMapping='parentID' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
<ColumnsDirective>
<ColumnDirective field='TaskID' headerText='Task ID' width='90' textAlign='Right' isPrimaryKey={true}/>
<ColumnDirective field='TaskName' headerText='Task Name' width='180' />
<ColumnDirective field='StartDate' headerText='Start Date' width='90' textAlign='Right'
editType='datepickeredit' format='yMd' type='date' />
<ColumnDirective field='EndDate' headerText='End Date' width='90' format='yMd' textAlign='Right' />
<ColumnDirective field='Priority' headerText='Priority' width='110' editType='dropdownedit' />
</ColumnsDirective>
<Inject services={[Edit,Toolbar]}/>
</TreeGridComponent>
};
export default App;
`

```

Also, when using the `UrlAdaptor`, you need to return the data as JSON from the controller action and the JSON object must contain a property as `result` with `dataSource` as its value and one more property `count` with the `dataSource` total records count as its value.

The following code example describes the above behavior.

```

`ts
public ActionResult DataSource(DataManager dm)
{
    var DataSource = TreeData.GetTree();
    DataOperations operation = new DataOperations();
    if (dm.Where != null && dm.Where.Count > 0)
    {
        DataSource = operation.PerformFiltering(DataSource, dm.Where, "and"); //perform filtering and
        maintain child records on Expand/Collapse operation
    }
    var count = DataSource.ToList<TreeData>().Count();
    if (dm.Skip != 0)
    {

```

```

DataSource = operation.PerformSkip(DataSource, dm.Skip); //Paging
}
if (dm.Take != 0)
{
DataSource = operation.PerformTake(DataSource, dm.Take);
}
return dm.RequiresCounts ? Json(new { result = DataSource, count = count }) : Json(DataSource);
}
`

```

Insert record

Using the `insertUrl` property, you can specify the controller action mapping URL to perform insert operation on the server-side.

The following code example describes the above behavior and also we have inserted new record based on the `newRowPosition` TreeGrid editSettings as "Below".

```

`ts
public void Insert(TreeGridData value, int relationalKey)
{
var i = 0;
for (; i < TreeData.tree.Count; i++)
{
if (TreeData.tree[i].TaskID == relationalKey)
{
break;
}
}
i += FindChildRecords(relationalKey); // Inserted new record when newRowPosition API is in "Below".
TreeData.tree.Insert(i + 1, value);
}
public int FindChildRecords(int id)
{
var count = 0;
for (var i = 0; i < TreeData.tree.Count; i++)
{
if (TreeData.tree[i].ParentItem == id)

```

```

{
count++;
count += FindChildRecords(TreeData.tree[i].TaskID);
}
}
return count;
}
`

```

The newly added record details are bound to the `value` parameter and `relationalKey` contains primaryKey value of an selected record helps to find out the position of newly added record. Please refer to the following screenshot.

![[Insert]](images/insert.PNG)

Update record

Using the `updateUrl` property, the controller action mapping URL can be specified to perform save/update operation on the server-side.

The following code example describes the previous behavior.

```

`ts
public ActionResult Update(TreeGridData value)
{
var val = TreeData.tree.Where(ds => ds.TaskID == value.TaskID).FirstOrDefault();
val.TaskName = value.TaskName;
val.StartDate = value.StartDate;
val.Duration = value.Duration;
val.Priority = value.Priority;
val.Progress = value.Progress;
return Json(value);
}
`

```

The updated record details are bound to the `value` parameter. Please refer to the following screenshot.

![[Update]](images/update.PNG)

Delete record

Using the `removeUrl` and `batchUrl` property, the controller action mapping URL can be specified to perform delete operation on the server-side.

The following code example describes the previous behavior.

```

`ts

```

```

public ActionResult Delete(int key)
{
    TreeData.tree.Remove(TreeData.tree.Where(ds => ds.TaskID == key).FirstOrDefault());
}

// Remove method (batchUrl) will be triggered when we delete parent record.
public ActionResult Remove(List<TreeGridData> changed, List<TreeGridData> added,
    List<TreeGridData> deleted)
{
    for (var i = 0; i < deleted.Count; i++)
    {
        TreeData.tree.Remove(TreeData.tree.Where(ds => ds.TaskID == deleted[i].TaskID).FirstOrDefault());
    }
}

```

The deleted record primary key value is bound to the **key** parameter. Please refer to the following screenshot.

![Delete](images/remove.PNG)

While delete parent record, the parent and child records is bound to the **deleted** parameter. Please refer to the following screenshot.

![Remove](images/delete.PNG)

Remote save adaptor

You may need to perform all Tree Grid Actions in client-side except the CRUD operations, that should be interacted with server-side to persist data. It can be achieved in TreeGrid by using **RemoteSaveAdaptor**.

Datasource must be set to **json** property and set **RemoteSaveAdaptor** to the **adaptor** property. CRUD operations can be mapped to server-side using **updateUrl**, **insertUrl**, **removeUrl** and **batchUrl** properties.

You can use the following code example to use **RemoteSaveAdaptor** in TreeGrid.

```

`ts
import { DataManager, RemoteSaveAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Edit, EditSettingsModel, Inject, Toolbar, ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { projectData } from './datasource';
function App() {

```

```

const editOptions: EditSettingsModel = { allowEditing: true, allowAdding: true, allowDeleting: true,
mode: 'Row', newRowPosition: 'Below' };
const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
const dataManager: DataManager = new DataManager({
adaptor: new RemoteSaveAdaptor,
insertUrl: "Home/Insert",
removeUrl: "Home/Delete",
updateUrl: "Home/Update",
batchUrl: "Home/Remove",
json: projectData,
});
return <TreeGridComponent dataSource={dataManager} treeColumnIndex={1} idMapping= 'TaskID'
parentIdMapping='parentID' height='270' editSettings={editOptions}
toolbar={toolbarOptions}>
<ColumnsDirective>
<ColumnDirective field='TaskID' headerText='Task ID' width='90' textAlign='Right' isPrimaryKey={true}/>
<ColumnDirective field='TaskName' headerText='Task Name' width='180'/>
<ColumnDirective field='StartDate' headerText='Start Date' width='90' textAlign='Right'
editType='datepickeredit' format='yMd' type='date' />
<ColumnDirective field='EndDate' headerText='End Date' width='90' format='yMd' textAlign='Right' />
<ColumnDirective field='Priority' headerText='Priority' width='110' editType='dropdownedit'/>
</ColumnsDirective>
<Inject services={[Edit,Toolbar]}/>
</TreeGridComponent>
};
export default App;
`

```

The following code example describes the CRUD operations handled at server-side.

```

`ts
public void Insert(TreeData value, int relationalKey)
{
var i = 0;
for (; i < TreeData.tree.Count; i++)
{

```

```

if (TreeData.tree[i].TaskID == relationalKey)
{
    break;
}
}
i += FindChildRecords(relationalKey); // Inserted new record when newRowPosition API is in "Below".
TreeData.tree.Insert(i + 1, value);
}
public ActionResult Update(TreeData value)
{
    var val = TreeData.tree.Where(ds => ds.TaskID == value.TaskID).FirstOrDefault();
    val.TaskName = value.TaskName;
    val.StartDate = value.StartDate;
    val.Duration = value.Duration;
    val.Priority = value.Priority;
    val.Progress = value.Progress;
    return Json(value);
}
public ActionResult Delete(int key)
{
    TreeData.tree.Remove(TreeData.tree.Where(ds => ds.TaskID == key).FirstOrDefault());
}
// Remove method (batchUrl) will be triggered when we delete parent record.
public ActionResult Remove(List<TreeGridData> changed, List<TreeGridData> added,
List<TreeGridData> deleted)
{
    for (var i = 0; i < deleted.Count; i++)
    {
        TreeData.tree.Remove(TreeData.tree.Where(ds => ds.TaskID == deleted[i].TaskID).FirstOrDefault());
    }
}
,

```

Sorting in React Treegrid component

Sorting enables you to sort data in the *Ascending* or *Descending* order. To sort a column, click the column header.

To sort multiple columns, press and hold the CTRL key and click the column header. You can clear sorting of any one of the multi-sorted columns by pressing and holding the SHIFT key and clicking the specific column header.

To enable sorting in the TreeGrid, set the [allowSorting](#) to true. Sorting options can be configured through the [sortSettings](#).

To use Sorting, inject **Sort** module in TreeGrid.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks' allowSorting={true} height='315'>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='180' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='150' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks' allowSorting={true} height='315'>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='180' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='150' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]} />
    </TreeGridComponent>;
}
;
export default App;
```

```

        </ColumnsDirective>
        <Inject services={[Sort]}/>
    </TreeGridComponent>
};
export default App;

```

* TreeGrid columns are sorted in the **Ascending** order. If you click the already sorted column, the sort direction toggles.

* You can apply and clear sorting by invoking [sortByColumn](#) and [clearSorting](#) methods.

* To disable sorting for a particular column, set the [columns.allowSorting](#) to **false**.

Initial Sort

To sort at initial rendering, set the [field](#) and [direction](#) in the [sortSettings.columns](#).

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    const sortingOptions = {
        columns: [
            { field: 'Category', direction: 'Ascending' },
            { field: 'orderName', direction: 'Ascending' }
        ]
    };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks' allowSorting={true} height='315'
    sortSettings={sortingOptions}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='200' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='150' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, Sort, SortSettingsModel, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    const sortingOptions: SortSettingsModel = {

```



```

        columns: [
            { field: 'Category', direction: 'Ascending' },
            { field: 'orderName', direction: 'Ascending' }
        ]
    };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks' allowSorting={true} height='315'
    sortSettings={sortingOptions}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='200' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='150' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]} />
    </TreeGridComponent>
    };
    export default App;

```

Sorting Events

During the sort action, the treegrid component triggers two events. The [actionBegin](#) event triggers before the sort action starts, and the [actionComplete](#) event triggers after the sort action is completed. Using these events you can perform the needed actions.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    const actionHandler = (args) => {
        /** custom Action */
        alert(args.requestType + ' ' + args.type);
    };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks' allowSorting={true} height='315'
    actionBegin={actionHandler} actionComplete={actionHandler}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='200' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='120' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]} />
    </TreeGridComponent>;
}
;

```

```
export default App;
```

APP.TSX

```
import { ActionEventArgs } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    const actionHandler = (args: ActionEventArgs) => {
        /** custom Action */
        alert(args.requestType + ' ' + args.type);
    }
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks'
    allowSorting={true} height='315' actionBegin={actionHandler}
    actionComplete={actionHandler}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='200' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='120' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]} />
    </TreeGridComponent>
};
export default App;
```

The `args.requestType` is the current action name. For example, in sorting the `args.requestType` value is *sorting*.

Custom sort comparer

You can customize the default sort action for a column by defining the [column.sortComparer](#) property. The sort comparer function has the same functionality like [Array.sort](#) sort comparer.

In the following example, custom sort comparer function was defined in the *Category* column.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
    /** Custom comparer function */
    const sortComparer = (reference, comparer) => {
        if (reference < comparer) {
            return -1;
        }
        if (reference > comparer) {
            return 1;
        }
    };
    return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
    childMapping='subtasks'
    allowSorting={true} height='315' actionBegin={actionHandler}
    actionComplete={actionHandler}>
        <ColumnsDirective>
            <ColumnDirective field='Category' headerText='Category'
width='140' />
            <ColumnDirective field='orderName' headerText='Order Name'
width='200' />
            <ColumnDirective field='orderDate' headerText='Order Date'
width='120' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Sort]} />
    </TreeGridComponent>
};
export default App;
```

```

    }
    return 0;
  };
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
  childMapping='subtasks' allowSorting={true} height='315'>
    <ColumnsDirective>
      <ColumnDirective field='Category' headerText='Category'
width='140' />
      <ColumnDirective field='orderName' headerText='Order Name'
sortComparer={sortComparer} width='200' />
      <ColumnDirective field='orderDate' headerText='Order Date'
width='120' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Sort]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```



import { ColumnDirective, ColumnsDirective, Inject, Sort, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sortData } from './datasource';
function App() {
  /** Custom comparer function */
  const sortComparer = (reference: string, comparer: string) => {
    if (reference < comparer) {
      return -1;
    }
    if (reference > comparer) {
      return 1;
    }
    return 0;
  };
  return <TreeGridComponent dataSource={sortData} treeColumnIndex={1}
  childMapping='subtasks' allowSorting={true} height='315'>
    <ColumnsDirective>
      <ColumnDirective field='Category' headerText='Category'
width='140' />
      <ColumnDirective field='orderName' headerText='Order Name'
sortComparer={sortComparer} width='200' />
      <ColumnDirective field='orderDate' headerText='Order Date'
width='120' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='units' headerText='Units' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Sort]} />
  </TreeGridComponent>
};
export default App;

```

The sort comparer function will work only for the local data.

Touch Interaction

When you tap the treegrid header on touchscreen devices, the selected column header is sorted. A

popup  is displayed for multi-column sorting. To sort multiple columns, tap the popup , and then tap the desired treegrid headers.

The following screenshot shows treegrid touch sorting.

<!-- markdownlint-disable MD033 -->

<!-- markdownlint-enable MD033 -->

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Filtering

Filtering in React Treegrid component

Filtering allows you to view specific or related records based on filter criteria. To enable filtering in the TreeGrid, set the [allowFiltering](#) to true. Filtering options can be configured through [filterSettings](#).

To use filter, inject the [Link to the Video](#) module in the treegrid.

To get start quickly with filtering functionalities, you can check on this video:

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Filter, Inject,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='275' allowFiltering={true}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Filter, Inject,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='275' allowFiltering={true}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent>
};
export default App;
```

* You can apply and clear filtering by using [filterByColumn](#) and [clearFiltering](#) methods.

* To disable filtering for a particular column, set [columns.allowFiltering](#) to **false**.

Filter hierarchy modes

TreeGrid provides support for a set of filtering modes with [filterSettings.filterHierarchyMode](#) property.

The below are the type of filter mode available in TreeGrid.

- **Parent** : This is the default filter hierarchy mode in TreeGrid. The filtered records are displayed with its parent records, if the filtered records not have any parent record then the filtered records only displayed.
- **Child** : The filtered records are displayed with its child record, if the filtered records not have any child record then the filtered records only displayed.
- **Both** : The filtered records are displayed with its both parent and child record, if the filtered records not have any parent and child record then the filtered records only displayed.
- **None** : The filtered records are only displayed.

APP.JSX

```
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    const data = ['Parent', 'Child', 'Both', 'None'];
    const onChange = (sel) => {
        const mode = sel.value.toString();
        if (treegrid) {
            treegrid.filterSettings.hierarchyMode = mode;
        }
    };
    return <div>
        <DropDownListComponent data-bbox="121 719 866 906" />
    </div>
```

```

        treegrid.clearFiltering();
    }
};
return (<div><DropDownListComponent popupHeight="250px"
dataSource={data} value="Parent" change={onChange} width="150px"/>
    <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='225' allowFiltering={true} ref={g =>
treegrid = g}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent></div>);
}
;
export default App;

```

APP.TSX

```

import { ChangeEventArgs, DropDownListComponent } from "@syncfusion/ej2-react-dropdowns";
import { ColumnDirective, ColumnsDirective, Filter, FilterHierarchyMode } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGrid, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const data: string[] = ['Parent', 'Child', 'Both', 'None'];
    const onChange = (sel: ChangeEventArgs): void => {
        const mode: FilterHierarchyMode = sel.value.toString() as FilterHierarchyMode;
        if (treegrid) {
            treegrid.filterSettings.hierarchyMode = mode;
            treegrid.clearFiltering();
        }
    }
    return (<div><DropDownListComponent popupHeight="250px" dataSource={data}
value="Parent" change={onChange} width="150px"/>
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='225' allowFiltering={true} ref={g =>
treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />

```

```

        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]}/>
</TreeGridComponent></div>
);
export default App;

```

Initial filter

To apply the filter at initial rendering, set the filter *predicate* object in [filterSettings.columns](#).

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const FilterOptions = {
        columns: [
            { field: 'taskName', matchCase: false, operator: 'startswith',
predicate: 'and', value: 'plan' },
            { field: 'duration', matchCase: false, operator: 'equal',
predicate: 'and', value: 5 }
        ]
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='275' allowFiltering={true}
filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Filter]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel }
from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {

```

```

const FilterOptions: FilterSettingsModel = {
  columns: [
    { field: 'taskName', matchCase: false, operator: 'startswith',
    predicate: 'and', value: 'plan' },
    { field: 'duration', matchCase: false, operator: 'equal',
    predicate: 'and', value: 5 }]
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    height='275' allowFiltering={true} filterSettings={FilterOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
  </TreeGridComponent>
};
export default App;

```

Filter operators

The filter operator for a column can be defined in the [operator](#) property of [filterSettings.columns](#).

The available operators and its supported data types are:

Operator	Description	Supported Types
startswith	Checks whether the value begins with the specified value.	String
endswith	Checks whether the value ends with the specified value.	String
contains	Checks whether the value contains the specified value.	String
equal	Checks whether the value is equal to the specified value.	String | Number | Boolean | Date
notequal	Checks for values not equal to the specified value.	String | Number | Boolean | Date
greaterthan	Checks whether the value is greater than the specified value.	Number | Date
greaterthanorequal	Checks whether a value is greater than or equal to the specified value.	Number | Date
lessthan	Checks whether the value is less than the specified value.	Number | Date
lessthanorequal	Checks whether the value is less than or equal to the specified value.	Number | Date

By default, the **filterSettings.columns.operator** value is *equal*.

Diacritics

By default, treegrid ignores diacritic characters while filtering. To include diacritic characters, set the [filterSettings.ignoreAccent](#) as **true**.

In the following sample, type **aero** in *Name* column to filter diacritic characters.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { diacritics } from './datasource';
function App() {
    const FilterOptions = {
        ignoreAccent: true
    };
    return <TreeGridComponent dataSource={diacritics} treeColumnIndex={0}
    childMapping='Children' height='275' allowFiltering={true}
    filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='EmpID' headerText='Employee ID'
width='95' />
            <ColumnDirective field='Name' headerText='Name' width='180' />
            <ColumnDirective field='DOB' headerText='DOB' width='90'
format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Country' headerText='Country'
width='100' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel }
from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { diacritics } from './datasource';
function App() {
    const FilterOptions: FilterSettingsModel = {
        ignoreAccent: true
    };
    return <TreeGridComponent dataSource={diacritics} treeColumnIndex={0}
    childMapping='Children'
    height='275' allowFiltering={true} filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='EmpID' headerText='Employee ID'
width='95' />
            <ColumnDirective field='Name' headerText='Name' width='180' />
            <ColumnDirective field='DOB' headerText='DOB' width='90'
format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='Country' headerText='Country' width='100'
/>
        />
```

```

        </ColumnsDirective>
        <Inject services={[Filter]}/>
    </TreeGridComponent>
};
export default App;

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Filter bar in React Treegrid component

By setting the [allowFiltering](#) to true, the filter bar row will render next to the header, which allows you to filter data. You can filter the records with different expressions depending upon the column type.

Filter bar expressions:

You can enter the following filter expressions (operators) manually in the filter bar.

Expression	Example	Description	Column Type
= =value	equal	Number	
!= !=value	notequal	Number	
>value	greaterthan	Number	
< <value	lessthan	Number	
= >=value	greaterthanorequal	Number	
<= <=value	lessthanorequal	Number	
/value	startswith	String	
% %value	endswith	String	
N/A	N/A	<i>Equal</i> operator will always be used for date filter.	Date
N/A	N/A	<i>Equal</i> operator will always be used for Boolean filter.	Boolean

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' allowFiltering={true}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>

```

```

        <Inject services={[Filter]}/>
      </TreeGridComponent>;
    }
  };
  export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' allowFiltering={true}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='75'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]}/>
  </TreeGridComponent>
};
export default App;

```

By default, the [filterSettings.columns.operator](#) value is *equal*.

Filterbar template with custom component

You can customize default filter bar component of a column by custom component using **filter template**.

The following example demonstrates the way to use filter template for a column when using filter bar. In the following example, the DropDownList component is used to filter **duration** column using filter template.

APP.JSX

```

import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const onChange = (args) => {
    if (treegrid) {
      if (args.value === 'All') {
        treegrid.clearFiltering();
      }
    }
  };

```

```

        else {
            treegrid.filterByColumn('duration', 'equal',
                parseInt(args.value, 0));
        }
    };
    const templateOptions = (props) => {
        const dataSource = ['All', '1', '3', '4', '5', '6', '8', '9'];
        return (<DropDownListComponent id={props.column.field}
            popupHeight='250px' dataSource={dataSource} change={onChange}/>);
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
        childMapping='subtasks' height='275' allowFiltering={true} ref={g =>
            treegrid = g}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
                textAlign='Right'/>
            <ColumnDirective field='taskName' headerText='Task Name'
                width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
                width='90' format='yMd' textAlign='Right' type='date'/>
            <ColumnDirective field='duration' headerText='Duration'
                width='80' textAlign='Right' filterTemplate={templateOptions}/>
        </ColumnsDirective>
        <Inject services={[Filter]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGrid, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const onChange = (args: any): any => {
        if (treegrid) {
            if (args.value === 'All') {
                treegrid.clearFiltering();
            } else {
                treegrid.filterByColumn('duration', 'equal',
                    parseInt(args.value, 0));
            }
        }
    };
    const templateOptions = (props: any): any => {
        const dataSource: string[] = ['All', '1', '3', '4', '5', '6', '8', '9'];
        return (<DropDownListComponent id={props.column.field}
            popupHeight='250px' dataSource={dataSource} change={onChange} /> );
    };
}

```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' allowFiltering={true} ref={g =>
    treegrid = g}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='75'
        textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' filterTemplate={templateOptions} />
      </ColumnsDirective>
      <Inject services={[Filter]} />
    </TreeGridComponent>
  };
  export default App;

```

Change default filter bar operator

You can change the default filter operator by extending [filterModule.filterOperators](#) property in [dataBound](#) event.

In the following sample, we have changed the default operator for string typed columns as **contains** from **startsWith**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const dataBound = () => {
    Object.assign(treegrid.grid.filterModule.filterOperators, {
      startsWith: 'contains' });
  };
  return <TreeGridComponent dataSource={sampleData} dataBound={dataBound}
  treeColumnIndex={1} childMapping='subtasks' height='275'
  allowFiltering={true} ref={g=> treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='75'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80'
      textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const dataBound = () => {
        Object.assign(treegrid.grid.filterModule.filterOperators, {
            startsWith: 'contains' });
    }
    return <TreeGridComponent dataSource={sampleData} dataBound={dataBound}
        treeColumnIndex={1} childMapping='subtasks' height='275'
        allowFiltering={true} ref={g => treegrid = g}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
            textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent>
</>;
export default App;
```

Filter menu in React Treegrid component

You can enable filter menu by setting the [filterSettings.type](#) as *Menu*. The filter menu UI will be rendered based on its column type, which allows you to filter data. You can filter the records with different operators.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const FilterOptions = {
        type: 'Menu'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
        childMapping='subtasks' height='275' allowFiltering={true}
        filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
            textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
</>
```

```

        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { FilterSettingsModel, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const FilterOptions: FilterSettingsModel = {
        type: 'Menu'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='275' allowFiltering={true}
filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent>
};
export default App;

```

* [allowFiltering](#) must be set as true to enable filter menu.

* Setting [columns.allowFiltering](#) as false will prevent filter menu rendering for a particular column.

Custom component in filter menu

You can customize default filter menu component of a column by custom component using **filterTemplate**.

The following example demonstrates the way to use filter template for a column when using filter menu. In the following example, the DropDownList component is used to filter **duration** column using **filterTemplate**.

`ts

```

import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGrid, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';

function App() {
  let treegrid: TreeGridComponent | null;
  const FilterOptions: FilterSettingsModel = {
    type: 'Menu'
  };
  const templateOptions = (props:any): any => {
    const dataSource: number[] = [1,3,4,5,6,8,9];
    return (<DropDownListComponent id={props.column.field} popupHeight='250px'
    dataSource={dataSource} /> );
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  filterSettings={FilterOptions} childMapping='subtasks' height='275' allowFiltering={true} ref={g =>
  treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='75' textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name' width='180' />
      <ColumnDirective field='startDate' headerText='Start Date' width='90' format='yMd' textAlign='Right'
      type='date' />
      <ColumnDirective field='duration' headerText='Duration' width='80' textAlign='Right'
      filterTemplate={templateOptions} />
    </ColumnsDirective>
    <Inject services={[Filter]} />
  </TreeGridComponent>
};
export default App;

```

Enable different filter dialog for a column

You can use both *Menu* and *Excel* filter in a same TreeGrid. To do so, set the [column.filter.type](#) as *Menu* or *Excel*.

In the following sample menu filter is enabled by default and excel filter is enabled for the Task Name column using the [column.filter.type](#).

APP.JSX

```
import { ColumnDirective, ColumnsDirective } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const FilterOptions = {
        type: 'Menu'
    };
    const FilterType = {
        type: 'Excel'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' allowFiltering={true}
    filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            filter={FilterType} width='180' />
            <ColumnDirective field='duration' headerText='Duration'
            width='90' />
            <ColumnDirective field='progress' headerText='Progress'
            width='90' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { IFilter } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel }
from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const FilterOptions: FilterSettingsModel = {
        type: 'Menu'
    };
    const FilterType : IFilter = {
        type: 'Excel'
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='275' allowFiltering={true}
    filterSettings={FilterOptions}>
        <ColumnsDirective>
```

```

        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
filter={FilterType} width='180' />
        <ColumnDirective field='duration' headerText='Duration'
width='90' />
        <ColumnDirective field='progress' headerText='Progress'
width='90' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
</TreeGridComponent>
};
export default App;

```

Excel like filter in React Treegrid component

You can enable Excel like filter by defining [filterSettings.type](#) as *Excel*. The excel menu contains an option such as Sorting, Clear filter, Sub menu for advanced filtering..

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const FilterOptions = {
        type: 'Excel'
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='275' allowFiltering={true}
filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='duration' headerText='Duration'
width='90' />
            <ColumnDirective field='progress' headerText='Progress'
width='90' />
        </ColumnsDirective>
        <Inject services={[Filter]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel }
from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';

```

```
function App() {
  const FilterOptions: FilterSettingsModel = {
    type: 'Excel'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='275' allowFiltering={true}
  filterSettings={FilterOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='duration' headerText='Duration'
      width='90' />
      <ColumnDirective field='progress' headerText='Progress'
      width='90' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
  </TreeGridComponent>
};
export default App;
```

Change default filter operator

You can change the default excel-filter operator by changing the column operator as **contains** from **startsWith** in the [actionBegin](#) event

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Filter } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const FilterOptions = {
    type: 'Excel'
  };
  const actionBegin = (args) => {
    if (args.requestType === 'filtersearchbegin' && args.column.type === "string") {
      args.operator = 'contains';
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='275' allowFiltering={true}
  filterSettings={FilterOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='duration' headerText='Duration'
      width='90' />
      <ColumnDirective field='progress' headerText='Progress'
      width='90' />
    </ColumnsDirective>
```

```

        <Inject services={[Filter]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel }
from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const FilterOptions: FilterSettingsModel = {
        type: 'Excel'
    };
    const actionBegin = (args:any) => {
        if(args.requestType === 'filtersearchbegin' && args.column.type ===
"string")
        {
            args.operator = 'contains';
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='275' allowFiltering={true}
filterSettings={FilterOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='duration' headerText='Duration'
width='90' />
            <ColumnDirective field='progress' headerText='Progress'
width='90' />
        </ColumnsDirective>
        <Inject services={[Filter]}/>
    </TreeGridComponent>
};
export default App;

```

Searching in React Treegrid component

You can search records in a TreeGrid, by using the [search](#) method with search key as a parameter. This also provides an option to integrate search text box in treegrid's toolbar by adding *search* item to the [toolbar](#).

To search records, inject the **Filter** module in the grid.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';

```

```
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['Search'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Toolbar]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, Toolbar, ToolbarItems } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['Search'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Toolbar]} />
  </TreeGridComponent>
};
export default App;
```

Initial search

To apply search at initial rendering, set the [fields](#), [operator](#), [key](#), and [ignoreCase](#) in the [searchSettings](#).

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, Toolbar } from '@syncfusion/ej2-react-treegrid';
```

```

import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['Search'];
  const searchOptions = {
    fields: ['taskName'],
    ignoreCase: true,
    key: 'dev',
    operator: 'contains'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='270' toolbar={toolbarOptions}
  searchSettings={searchOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Toolbar]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, SearchSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['Search'];
  const searchOptions: SearchSettingsModel = {
    fields: ['taskName'],
    ignoreCase: true,
    key: 'dev',
    operator: 'contains'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
  height='270' toolbar={toolbarOptions}
  searchSettings={searchOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;

```

```

        <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Filter,Toolbar]} />
    </TreeGridComponent>
  };
  export default App;

```

By default, treegrid searches all the bound column values. To customize this behavior define the [searchSettings.fields](#) property.

Search operators

The search operator can be defined in the [searchSettings.operator](#) property to configure specific searching.

The following operators are supported in searching:

Operator | Description

startsWith | Checks whether a value begins with the specified value.

endsWith | Checks whether a value ends with the specified value.

contains | Checks whether a value contains the specified value.

equal | Checks whether a value is equal to the specified value.

notEqual | Checks for values not equal to the specified value.

By default, the [searchSettings.operator](#) value is *contains*.

Search by external button

To search treegrid records from an external button, invoke the [search](#) method.

APP.JSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  let treegrid;
  const inputStyle = { width: '200px', display: 'inline-block' };
  const onClick = () => {
    const searchText =
document.getElementsByClassName('searchtext')[0].value;
    if (treegrid) {
      treegrid.search(searchText);
    }
  };
  return (
    <div>
      <div className='e-float-input' style={inputStyle}>
        <input type='text' className='searchtext' />
        <span className='e-float-line' />
        <label className='e-float-text'>Search text</label>
      </div>
    </div>
  );
}

```

```

    <ButtonComponent id='search' onClick={onClick}>Search</ButtonComponent>
    <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='220' ref={g => treegrid = g}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter]} />
    </TreeGridComponent></div>;
}
;
export default App;

```

APP.TSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const inputStyle : object = {width:'200px', display: 'inline-block'};
    const onClick = () => {
        const searchText: string =
            (document.getElementsByClassName('searchtext')[0] as
HTMLInputElement).value;
        if (treegrid) {
            treegrid.search(searchText);
        }
    }
    return (<div>
        <div className='e-float-input' style={inputStyle}>
            <input type="text" className="searchtext" />
            <span className="e-float-line"/>
            <label className="e-float-text">Search text</label>
        </div>
        <ButtonComponent id='search' onClick= { onClick
}>Search</ButtonComponent>
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='220'
            ref={g => treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />

```



```

        <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Filter]}/>
    </TreeGridComponent></div>
  );
  export default App;

```

Search Specific Columns

By default, treegrid searches all visible columns. You can search specific columns by defining the specific column's field names in the [searchSettings.fields](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['Search'];
  const searchSettings = { fields: ['taskName', 'duration'] };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' toolbar={toolbarOptions}
searchSettings={searchSettings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      <ColumnDirective field='progress' headerText='Progress'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Toolbar]}/>
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, SearchSettingsModel, Toolbar, ToolbarItems } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['Search'];
  const searchSettings: SearchSettingsModel = { fields: ['taskName',
'duration'] };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270'

```

```

        toolbar={toolbarOptions} searchSettings={searchSettings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name '
width='180' />
            <ColumnDirective field='duration' headerText='Duration '
width='80' textAlign='Right' />
            <ColumnDirective field='progress' headerText='Progress '
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Filter,Toolbar]} />
    </TreeGridComponent>
};
export default App;

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Paging in React Treegrid component

Paging provides an option to display TreeGrid data in page segments. To enable paging, set the [allowPaging](#) to **true**. When paging is enabled, pager component renders at the bottom of the treegrid. Paging options can be configured through the [pageSettings](#).

To use Paging, inject **Page** module in TreeGrid.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const pageSettings = { pageSize: 7 };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name '
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date '
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration '
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
  width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
};
export default App;
```

You can achieve better performance by using treegrid paging to fetch only a pre-defined number of records from the data source.

Page Size Mode

Two behaviors are available in TreeGrid paging to display certain number of records in a current page. Following are the two types of [pageSizeMode](#).

- **All** : This is the default mode. The number of records in a page is based on [pageSize](#) property.
- **Root** : The number of root nodes or the 0th level records to be displayed per page is based on [pageSize](#) property.

With [pageSizeMode](#) property as **Root** only the root level or the 0th level records are considered in records count.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const pageSettings = { pageSize: 2, pageSizeMode: 'Root' };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  height='265'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
```

```

        <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Page, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const pageSettings: PageSettingsModel = { pageSize: 2, pageSizeMode:
'Root' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true}
    pageSettings={pageSettings} height='265'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
export default App;

```

Template

You can use custom elements inside the pager instead of default elements. The custom elements can be defined by using the [template](#) property. Inside this template, you can access the [currentPage](#), [pageSize](#), [pageCount](#), [totalPage](#) and [totalRecordCount](#) values.

APP.JSX

```

import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {

```

```

let treegrid;
const pageTemplate = (props) => {
  return (<div className="e-pagertemplate">
    <div className="col-lg-12 control-section">
      <div className="content-wrapper">
        <NumericTextBoxComponent max={3} min={1} step={1}
value={props.currentPage} width={75} format='###.##' change={onChange}/>
      </div>
    </div>
    <div id="totalPages" className="e-pagertemplatemessage">
      <span className="e-pagenomsg">{props.currentPage} of
{props.totalPages} pages ({props.totalRecordsCount} items)</span>
    </div>
  </div>);
};
const pageSettings = {
  pageSize: 6,
  template: pageTemplate
};
const onChange = (args) => {
  const value = args.value;
  if (treegrid) {
    treegrid.goToPage(value);
  }
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
ref={g => treegrid = g}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'/>
    <ColumnDirective field='taskName' headerText='Task Name'
width='160'/>
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date'/>
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right'/>
  </ColumnsDirective>
  <Inject services={[Page]}/>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ChangeEventArgs } from '@syncfusion/ej2-inputs';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ColumnDirective, ColumnsDirective, Inject, TreeGrid,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Page, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const pageTemplate = (props: any): any => {

```

```

    return (<div className="e-pagertemplate">
      <div className="col-lg-12 control-section">
        <div className="content-wrapper">
          <NumericTextBoxComponent max={3} min={1} step={1}
value={props.currentPage} width={75} format='###.##' change={onChange}/>
        </div>
      </div>
      <div id="totalPages" className="e-pagertemplatemessage">
        <span className="e-pagenomsg">{props.currentPage} of
{props.totalPages} pages ({props.totalRecordsCount} items)</span>
      </div>
    </div>);
  }
  const pageSettings: any = {
    pageSize: 6,
    template: pageTemplate
  };
  const onChange = (args: ChangeEventArgs) => {
    const value: number = args.value as number;
    if (treegrid) {
      treegrid.goToPage(value);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} ref={g => treegrid =
g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
</div>);
};
export default App;

```

Pager with Page Size Dropdown

The pager Dropdown allows you to change the number of records in the TreeGrid dynamically. It can be enabled by defining the [pageSettings.pageSize](#) property as **true**.

`ts

```
const pageSettings: PageSettingsModel = { pageSize: 7, pageSizees: true };
```

,

Task ID	Task Name	Start Date	End Date	Duration	Progress	Priority
1	▼ Planning	2/3/2017	2/7/2017	5	100	Normal
2	Plan timeline	2/3/2017	2/7/2017	5	100	Normal
3	Plan budget	2/3/2017	2/7/2017	5	100	Low
4	Allocate resources	2/3/2017	2/7/2017	5	100	Critical
5	Planning complete	2/7/2017	2/7/2017	0	0	Low
6	▼ Design	2/10/2017	2/14/2017	3	86	High
7	Software Specification	2/10/2017	2/12/2017	3	60	Normal
8	Develop prototype	2/10/2017	2/12/2017	3	100	Critical
9	Get approval from customer	2/13/2017	2/14/2017	2	100	Low
10	Design Documentation	2/13/2017	2/14/2017	2	100	High

< < 1 2 ... > > 10

Items per page

 1 of 4 pages (36 items)

How to render Pager at the Top of the TreeGrid

By default, Pager will be rendered at the bottom of the TreeGrid. You can also render the Pager at the top of the TreeGrid by using the [dataBound](#) event.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const pageSettings = { pageSize: 7, pageSizes: true };
  let initialGridLoad = true;
  const dataBound = () => {
    if (initialGridLoad) {
      initialGridLoad = false;
      const pager = document.getElementsByClassName('e-gridpager');
      let topElement;
      if (treegrid && treegrid.toolbar) {
        topElement = document.getElementsByClassName('e-toolbar');
      }
      else {
        topElement = document.getElementsByClassName('e-
gridheader');
      }
      topElement[0].before(pager[0]);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  dataBound={dataBound} ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
    </ColumnsDirective>
  </TreeGridComponent>

```

```

        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGrid,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Page, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const pageSettings: PageSettingsModel = { pageSize: 7, pageSizes: true
};
    let initialGridLoad: boolean = true;
    const dataBound = () => {
        if (initialGridLoad) {
            initialGridLoad = false;
            const pager = document.getElementsByClassName('e-gridpager');
            let topElement;
            if (treegrid && treegrid.toolbar) {
                topElement = document.getElementsByClassName('e-toolbar');
            } else {
                topElement = document.getElementsByClassName('e-
gridheader');
            }
            topElement[0].before(pager[0]);
        }
        return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
dataBound={dataBound} ref={g => treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
                <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Page]} />
        </TreeGridComponent>
    };
    export default App;

```


During the paging action, the pager component triggers the below three events.

- * The [created](#) event triggers when Pager is created.
- * The [click](#) event triggers when the numeric items in the pager is clicked.
- * The [dropDownChanged](#) event triggers when pageSize DropDownList value is selected.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Selection

Selection in React Treegrid component

Selection provides an option to highlight a row or cell. Selection can be done through simple Mouse down or Arrow keys. To disable selection in the TreeGrid, set the [allowSelection](#) to [Link to the Video](#).

To get start quickly with Selection, you can check on this video:

The treegrid supports two types of selection that can be set by using the [selectionSettings.type](#). They are:

- **Single** - It is set by default. Allows you to select only a single row or cell.
- **Multiple** - Allows you to select multiple rows or cells.

To perform the multi-selection, press and hold CTRL key and click the desired rows or cells.

To select range of rows or cells, press and hold the SHIFT key and click the rows or cells.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const settings = { type: 'Multiple' };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel } from '@syncfusion/ej2-react-
 treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const settings: SelectionSettingsModel = { type: 'Multiple' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
 childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
 textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
 width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
 width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
 width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
export default App;
```

Selection mode

TreeGrid supports three types of selection mode which can be set by using [selectionSettings.mode](#). They are:

- **Row** - It is set by default. Allows you to select rows only.
- **Cell** - Allows you to select cells only.
- **Both** - Allows you to select rows and cells at the same time.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const settings = { mode: 'Both' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
 childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
 textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
 width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
 width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
 width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
```

```

    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel } from '@syncfusion/ej2-react-
 treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings: SelectionSettingsModel = { mode: 'Both' };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
 childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
 textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
 width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
 width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
 width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
};
export default App;

```

Touch interaction

When you tap a treegrid row on touchscreen device, the tapped row is selected. It also shows a popup [\[Multi Row selection\]\(images/selection.jpg\)](#) for multi-row selection. To select multiple rows or cells, tap the popup [\[Multi Row or Cells\]\(images/mselection.jpg\)](#) and then tap the desired rows or cells.

Multi-selection requires the selection [type](#) to be **Multiple**.

The following screenshot represents a treegrid touch selection in the device.

```
<!-- markdownlint-disable MD033 -->
```

```

```

```
<!-- markdownlint-enable MD033 -->
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Cell selection in React Treegrid component

Cell Selection can be done through simple Mouse down or Arrow keys(up, down, left and right).

TreeGrid supports two types of cell selection mode which can be set by using [selectionSettings.cellSelectionMode](#). They are:

- **Flow** - It is set by default.

Select range of cells between the start index and end index which includes in between cells of rows.

- **Box** - Select range of cells within the start and end column indexes which includes

in between cells of rows within the range.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings = {
    cellSelectionMode: 'Box',
    mode: 'Cell',
    type: 'Multiple'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
  width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings: SelectionSettingsModel = {
    cellSelectionMode: 'Box',
    mode: 'Cell',
    type: 'Multiple'
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true}>
```

```

        selectionSettings={settings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name '
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date '
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration '
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
};
export default App;

```

Row selection in React Treegrid component

Select row at initial rendering

To select a row at initial rendering, set the [selectedRowIndex](#) value.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} selectedRowIndex={1}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name '
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date '
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration '
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {

```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} selectedRowIndex={1}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page]} />
    </TreeGridComponent>
  };
  export default App;

```

Get selected row indexes

You can get the selected row indexes by using the [getSelectedRowIndexes](#) method.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const settings = { type: 'Multiple' };
  const rowSelected = () => {
    if (treegrid) {
      /** Get the selected row indexes */
      const selectedRowIndex = treegrid.getSelectedRowIndexes();
      /** Get the selected records. */
      const selectedRecords = treegrid.getSelectedRecords();
      alert(selectedRowIndex + " : " +
        JSON.stringify(selectedRecords));
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' selectionSettings={settings} height={270}
  rowSelected={rowSelected} ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='150' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}

```

```
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel, TreeGrid } from '@syncfusion/ej2-
react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const settings: SelectionSettingsModel = { type: 'Multiple' };
  const rowSelected = () => {
    if (treegrid) {
      /** Get the selected row indexes */
      const selectedrowindex: number[] =
treegrid.getSelectedRowIndexes();
      /** Get the selected records. */
      const selectedrecords: object[] = treegrid.getSelectedRecords();
      alert(selectedrowindex + " : " +
JSON.stringify(selectedrecords));
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
selectionSettings={settings} height={270} rowSelected={rowSelected}
ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='150' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
</ref>
};
export default App;
```

Multiple selection based on condition

You can select multiple treegrid rows based on condition by using the [selectRows](#) method.

In the following code, the rows which contains *taskID* value as 3 and 5 are selected at initial rendering.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
```

```
function App() {
  let treegrid;
  const settings = { type: 'Multiple' };
  const dataBound = () => {
    if (treegrid) {
      const rowIndexes = [];
      treegrid.dataSource.forEach((dat, index) => {
        if (dat.taskID === 3 || dat.taskID === 5) {
          rowIndexes.push(index);
        }
      });
      treegrid.selectRows(rowIndexes);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' selectionSettings={settings} height={270}
  dataBound={dataBound} ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='150' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel, TreeGrid } from '@syncfusion/ej2-
react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const settings: SelectionSettingsModel = { type: 'Multiple' };
  const dataBound = () => {
    if (treegrid) {
      const rowIndexes : number[]=[];
      (treegrid.dataSource as object[]).forEach((dat: any,index) => {
        if (dat.taskID === 3 || dat.taskID === 5) {
          rowIndexes.push(index);
        }
      });
      treegrid.selectRows(rowIndexes);
    }
  }
}
```



```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
    selectionSettings={settings} height={270} dataBound={dataBound} ref={g
=> treegrid = g}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='150' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page]} />
    </TreeGridComponent>
  };
  export default App;

```

Toggle selection

The Toggle selection allows to perform selection and unselection of the particular row or cell. To enable toggle selection, set

`[enableToggle]`(<https://ej2.syncfusion.com/react/documentation/api/treegrid/selectionSettings/#enable-toggle>) property of the selectionSettings as true. If you click on the selected row or cell then it will be unselected and vice versa.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings = { enableToggle: true };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel } from '@syncfusion/ej2-react-
 treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const settings: SelectionSettingsModel = { enableToggle: true };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
 childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
 textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
 width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
 width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
 width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
};
export default App;
```

If multi selection is enabled, then first click on any selected row (without pressing Ctrl key), it will clear the multi selection and in second click on the same row, it will be unselected.

Check box selection in React Treegrid component

Checkbox Selection provides an option to select multiple TreeGrid records with help of checkbox in each row.

To render checkbox in each treegrid row, you need to use checkbox column with type as **CheckBox** using column [type](#) property.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={2}
 childMapping='subtasks' allowPaging={true}>
    <ColumnsDirective>
      <ColumnDirective type='checkbox' width='50' />
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
 textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
 width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
 width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
 width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
};
```

```

        <Inject services={[Page]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={2}
    childMapping='subtasks' allowPaging={true}>
        <ColumnsDirective>
            <ColumnDirective type='checkbox' width='50' />
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]}/>
    </TreeGridComponent>
};
export default App;

```

By default selection is allowed by clicking a treegrid row or checkbox in that row. To allow Selection only through checkbox, you can set

[selectionSettings.checkboxOnly](#) property to **true**.

Selection can be persisted on all the operations

using [selectionSettings.persistSelection](#) property.

For persisting selection on the TreeGrid, any one of the column should be defined as a primary key using [columns.isPrimaryKey](#) property.

Checkbox selection mode

In checkbox selection, selection can also be done by clicking on rows. This selection provides two types of Checkbox Selection mode which can be set by using the following API, [selectionSettings.checkboxMode](#). The modes are;

- **Default:** This is the default value of the checkboxMode. In this mode, user can select multiple rows by clicking rows one by one.
- **ResetOnRowClick:** In ResetOnRowClick mode, when user clicks on a row it will reset previously selected row. Also you can perform multiple-selection in this mode by press and hold CTRL key

and click the desired rows. To select range of rows, press and hold the SHIFT key and click the rows.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const settings = { checkboxMode: 'ResetOnRowClick' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={2}
    childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
        <ColumnsDirective>
            <ColumnDirective type='checkbox' width='50' />
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const settings: SelectionSettingsModel = { checkboxMode:
    'ResetOnRowClick' };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={2}
    childMapping='subtasks' allowPaging={true} selectionSettings={settings}>
        <ColumnsDirective>
            <ColumnDirective type='checkbox' width='50' />
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>;
}
```

```

    </TreeGridComponent>
  };
  export default App;

```

Checkbox Selection feature is intended for row selection only; it is not compatible with cell selection mode.

Scrolling in React Treegrid component

The scrollbar will be displayed in the treegrid when content exceeds the element [width](#) or [height](#). The vertical and horizontal scrollbars will be displayed based on the following criteria:

- The vertical scrollbar appears when the total height of rows present in the treegrid exceeds its element height.
- The horizontal scrollbar appears when the sum of columns width exceeds the treegrid element width.
- The [height](#) and [width](#) are used to set the treegrid height and width, respectively.

The default value for [height](#) and [width](#) is *auto*.

Set width and height

To specify the [width](#) and [height](#) of the scroller in the pixel, set the pixel value to a number.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='315' width='400'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='120' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
        width='110' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {

```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
      height='315' width='400'>
        <ColumnsDirective>
          <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
          <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
          <ColumnDirective field='startDate' headerText='Start Date'
            width='120' format='yMd' textAlign='Right' type='date' />
          <ColumnDirective field='duration' headerText='Duration'
            width='110' textAlign='Right' />
        </ColumnsDirective>
      </TreeGridComponent>
    };
    export default App;

```

Responsive with parent container

Specify the [width](#) and [height](#) as **100%** to make the treegrid element fill its parent container. Setting the [height](#) to **100%** requires the treegrid parent element to have explicit height.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' height='100%' width='100%'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='120' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
        width='110' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    height='100%' width='100%'>

```

```

        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='110' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```

Scroll to selected row

You can scroll the treegrid content to the selected row position by using the [rowSelected](#) event.

APP.JSX

```

import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    let numeric;
    const onChange = () => {
        if (treegrid && numeric) {
            treegrid.selectRow(parseInt(numeric.getText(), 10));
        }
    };
    const rowSelected = (args) => {
        if (treegrid) {
            const rowHeight =
treegrid.getRows()[treegrid.getSelectedRowIndex()][0].scrollHeight;
            treegrid.getContent().children[0].scrollTop = rowHeight *
treegrid.getSelectedRowIndex()[0];
        }
    };
    return (<div>
        <NumericTextBoxComponent format='{N}' placeholder='{Enter index to
select a row}' width={200} showSpinButton={false} min={0} change={onChange}
ref={numeric}/>
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='270' width='100%' rowSelected={rowSelected}
ref={g => treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
                <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
            </ColumnsDirective>
        </TreeGridComponent>
    </div>);
}

```

```

        </ColumnsDirective>
      </TreeGridComponent></div>);
    }
  };
  export default App;

```

APP.TSX

```

import { RowSelectEventArgs } from '@syncfusion/ej2-grids';
import { NumericTextBox, NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  let numeric: NumericTextBox | null;
  const onChange = () => {
    if (treegrid && numeric) {
      treegrid.selectRow(parseInt(numeric.getText(), 10));
    }
  }
  const rowSelected = (args: RowSelectEventArgs) => {
    if (treegrid) {
      const rowHeight: number =
treegrid.getRows()[treegrid.getSelectedRowIndex()[0]].scrollHeight;
      treegrid.getContent().children[0].scrollTop = rowHeight *
treegrid.getSelectedRowIndex()[0];
    }
  }
  return (<div>
    <NumericTextBoxComponent format={'N'} placeholder={'Enter index to
select a row'} width={200}
      showSpinButton={false} min={0} change={onChange} ref={numeric}/>
    <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
      height='270' width='100%' rowSelected={rowSelected} ref={g =>
treegrid = g}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent></div>
  );
  export default App;

```


Frozen in React Treegrid component

Frozen rows and columns

Frozen rows and columns provides an option to make rows and columns always visible in the top and left side of the tree grid while scrolling.

To use frozen rows and columns support, inject the **Freeze** module in the tree grid.

In this demo, the [frozenColumns](#) is set as '2' and the [frozenRows](#) is set as '3'. Hence, the left two columns and top three rows are frozen.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent, Freeze,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData}
    childMapping='subtasks' treeColumnIndex={1} height='310' frozenRows={3}
    frozenColumns={2} allowSelection={false}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='120'
            textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
            width='230'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
            width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='endDate' headerText='End Date'
            width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='duration' headerText='Duration'
            width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='progress' headerText='Progress'
            width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='priority' headerText='Priority'
            width='110'></ColumnDirective>
            <ColumnDirective field='approved' headerText='Approved'
            textAlign='Center' width='110'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Freeze]}>
    </TreeGridComponent>;
}
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent, Freeze,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} childMapping =
    'subtasks' treeColumnIndex={1} height='310' frozenRows={3} frozenColumns={2}
    allowSelection={false}>
        <ColumnsDirective>
```

```

        <ColumnDirective field='taskID' headerText='Task ID' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='taskName' headerText='Task Name'
width='230'></ColumnDirective>
        <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='endDate' headerText='End Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='duration' headerText='Duration'
width='110' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='progress' headerText='Progress'
width='110' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='priority' headerText='Priority'
width='110'></ColumnDirective>
        <ColumnDirective field='approved' headerText='Approved'
textAlign='Center' width='110'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[Freeze]} />
</TreeGridComponent>
};
export default App;

```

Freeze particular columns

You can use [isFrozen](#) property to freeze selected columns in tree grid.

In this demo, the columns with field name `taskName` and `startDate` is frozen using the `isFrozen` property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent, Freeze,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData}
childMapping='subtasks' height='310' allowSelection={false}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='110'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
width='230' isFrozen='true'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right'
isFrozen='true'></ColumnDirective>
            <ColumnDirective field='endDate' headerText='End Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='duration' headerText='Duration'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='progress' headerText='Progress'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='priority' headerText='Priority'
width='110'></ColumnDirective>
            <ColumnDirective field='approved' headerText='Approved'
textAlign='Center' width='110'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>

```

```

        <Inject services={[Freeze]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent, Freeze,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} childMapping =
'subtasks' height='310' allowSelection={false} >
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='110'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
width='230' isFrozen='true'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right'
isFrozen='true'></ColumnDirective>
            <ColumnDirective field='endDate' headerText='End Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='duration' headerText='Duration'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='progress' headerText='Progress'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='priority' headerText='Priority'
width='110'></ColumnDirective>
            <ColumnDirective field='approved' headerText='Approved'
textAlign='Center' width='110'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Freeze]} />
    </TreeGridComponent>
};
export default App;

```

Freeze direction

You can freeze the tree grid columns on the left or right side by using the [column.freeze](#) freeze property and the remaining columns will be movable. The tree grid will automatically move the columns to the left or right position based on the [column.freeze](#) value.

Types of the [column.freeze](#) directions:

- **Left:** Allows you to freeze the columns at the left.
- **Right:** Allows you to freeze the columns at the right.

In this demo, the **Task Name** column is frozen at the left and the **Priority** column is frozen at the right side of the content table.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent, Freeze,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData}
childMapping='subtasks' height='310' treeColumnIndex={1}
allowSelection={false}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='110'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
width='230' freeze='Left'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='endDate' headerText='End Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='duration' headerText='Duration'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='progress' headerText='Progress'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='priority' headerText='Priority'
width='110' freeze='Right'></ColumnDirective>
            <ColumnDirective field='approved' headerText='Approved'
textAlign='Center' width='110'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Freeze]}></Inject>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent, Freeze,
Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    return <TreeGridComponent dataSource={sampleData} childMapping =
'subtasks' height='310' treeColumnIndex={1} allowSelection={false} >
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='110'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
width='230' freeze='Left'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='endDate' headerText='End Date'
width='120' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='duration' headerText='Duration'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='progress' headerText='Progress'
width='110' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='priority' headerText='Priority'
width='110' freeze='Right'></ColumnDirective>

```

```

        <ColumnDirective field='approved' headerText='Approved'
        textAlign='Center' width='110'></ColumnDirective>
      </ColumnsDirective>
      <Inject services={[Freeze]} />
    </TreeGridComponent>
  };
  export default App;

```

* Freeze Direction is not compatible with the [isFrozen](#) and [frozenColumns](#) properties.

Limitations of frozen tree grid

The following features are not supported in frozen rows and columns:

- Row Template
- Detail Template
- Cell Editing

Freeze Direction feature has the below limitations, along with the above mentioned limitations.

- Infinite scroll cache mode
- Freeze direction in the stacked header is not compatible with column reordering.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Virtual scroll in React Treegrid component

TreeGrid allows you to load large amount of data without performance degradation. To use virtualization, you need to inject [VirtualScrollService](#) in TreeGrid.

Row virtualization

Row virtualization allows you to load and render rows only in the content viewport. It is an alternative way of paging in which the rows will be appended while scrolling vertically. To setup the row virtualization, you need to define [enableVirtualization](#) as true and content height by [height](#) property.

The number of records displayed in the TreeGrid is determined implicitly by height of the content area and a buffer records will be maintained in the TreeGrid content in addition to the original set of rows.

Expand and Collapse state of any child record will be persisted.

APP.JSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
VirtualScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
  dataSource();
  return <TreeGridComponent dataSource={virtualData} childMapping='Crew'
  enableVirtualization={true} treeColumnIndex={1} height='291'>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Player Jersey'
      width='120' textAlign='Right'></ColumnDirective>

```

```

        <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
        <ColumnDirective field='FIELD2' headerText='Year' width='100'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD3' headerText='Stint' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD4' headerText='TMID' width='120'
textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[VirtualScroll]}/>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
VirtualScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
    dataSource();
    return <TreeGridComponent dataSource={virtualData} childMapping = 'Crew'
enableVirtualization={true} treeColumnIndex={1} height='291'>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
            <ColumnDirective field='FIELD2' headerText='Year' width='100'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD3' headerText='Stint' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD4' headerText='TMID' width='120'
textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[VirtualScroll]} />
    </TreeGridComponent>
};
export default App;

```

Column virtualization

Column virtualization allows you to virtualize columns. It will render column only in the current view port and all other columns are rendered on demand during horizontal scrolling.

To setup the column virtualization, set the [enableVirtualization](#) and [enableColumnVirtualization](#) properties as **true**.

APP.JSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
VirtualScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';

```

```

function App() {
  dataSource();
  return <TreeGridComponent dataSource={virtualData} childMapping='Crew'
enableVirtualization={true} enableColumnVirtualization={true}
treeColumnIndex={1} height='291'>
  <ColumnsDirective>
    <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
    <ColumnDirective field='FIELD2' headerText='Year' width='100'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD3' headerText='Stint' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD4' headerText='TMID' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD5' headerText='LGID' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD6' headerText='GP' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD7' headerText='GS' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD8' headerText='Minutes' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD9' headerText='Points' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD10' headerText='oRebounds'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD11' headerText='dRebounds'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD12' headerText='Rebounds'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD13' headerText='Assists'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD14' headerText='Steals' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD15' headerText='Blocks' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD16' headerText='Turnovers'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD17' headerText='PF' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD18' headerText='fgAttempted'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD19' headerText='ftAttempted'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD20' headerText='ThreeAttempted'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD21' headerText='ThreeMade'
width='120' textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD22' headerText='PostGP' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD23' headerText='ftMade' width='120'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='FIELD24' headerText='fgMade' width='120'
textAlign='Right'></ColumnDirective>
  </ColumnsDirective>
</TreeGridComponent>

```

```

        <ColumnDirective field='FIELD25' headerText='ffmade' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD26' headerText='PostGS' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD27' headerText='PostMinutes'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD28' headerText='PostPoints'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD29' headerText='PostoRebounds'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD30' headerText='PostdRebounds'
width='120' textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[VirtualScroll]}/>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
VirtualScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
    dataSource();
    return <TreeGridComponent dataSource={virtualData} childMapping = 'Crew'
enableVirtualization={true} enableColumnVirtualization={true}
treeColumnIndex={1} height='291'>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
            <ColumnDirective field='FIELD2' headerText='Year' width='100'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD3' headerText='Stint' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD4' headerText='TMID' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD5' headerText='LGID' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD6' headerText='GP' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD7' headerText='GS' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD8' headerText='Minutes' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD9' headerText='Points' width='120'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD10' headerText='oRebounds'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD11' headerText='dRebounds'
width='120' textAlign='Right'></ColumnDirective>

```



```

        <ColumnDirective field='FIELD12' headerText='Rebounds'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD13' headerText='Assists'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD14' headerText='Steals' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD15' headerText='Blocks' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD16' headerText='Turnovers'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD17' headerText='PF' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD18' headerText='fgAttempted'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD19' headerText='ftAttempted'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD20' headerText='ThreeAttempted'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD21' headerText='ThreeMade'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD22' headerText='PostGP' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD23' headerText='ftMade' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD24' headerText='fgMade' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD25' headerText='ffmade' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD26' headerText='PostGS' width='120'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD27' headerText='PostMinutes'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD28' headerText='PostPoints'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD29' headerText='PostoRebounds'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD30' headerText='PostdRebounds'
width='120' textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[VirtualScroll]} />
</TreeGridComponent>
};
export default App;

```

Column's [width](#) is required for column virtualization.

If column's width is not defined then tree grid will consider its value as **200px**.

Limitations for virtualization

- Due to the element height limitation in browsers, the maximum number of records loaded by the treegrid is limited by the browser capability.
- Cell selection will not be persisted in row.
- Virtual scrolling is not compatible with detail template, editing and row drag and drop features.

- The page size provided must be two times larger than the number of visible rows in the TreeGrid. If the page size is failed to meet this condition then the size will be determined by TreeGrid.
- The virtual height of the treegrid content is calculated using the row height and total number of records in the data source and hence features which changes row height such as text wrapping are not supported. If you want to increase the row height to accommodate the content then you can specify the row height as below to ensure all the table rows are in same height.

```
`css
```

```
.e-treegrid .e-row {
height: 2em;
}
```

```
`
```

- Programmatic selection using the **selectRows** method is not supported in virtual scrolling.
- Virtual scrolling is not compatible with Batch editing, clipboard functionality and detail template.
- When virtualization is active in a tree grid, the editCell method is unusable for records outside the currently visible viewport.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Infinite scroll in React Treegrid component

Infinite scrolling is used to load a huge amount of data without degrading the Tree Grid performance. This feature works like the lazy loading concept, which means the buffer data is loaded only when the scrollbar reaches the end of the scroller.

To enable Infinite scrolling, set `enableInfiniteScrolling` property as true and inject **InfiniteScroll** module in Tree Grid.

* In this feature, Tree Grid will not make a new data request when you visit the same page again.

APP.JSX

```
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
InfiniteScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
  dataSource();
  return <TreeGridComponent dataSource={virtualData} childMapping='Crew'
enableInfiniteScrolling={true} treeColumnIndex={1} height='291'>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
      <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
      <ColumnDirective field='FIELD2' headerText='Year' width='100'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='FIELD3' headerText='Stint' width='120'
textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
  </TreeGridComponent>
```

```

        <ColumnDirective field='FIELD4' headerText='TMID' width='120'
        textAlign='Right'></ColumnDirective>
      </ColumnsDirective>
      <Inject services={[InfiniteScroll]}/>
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
InfiniteScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
  dataSource();
  return <TreeGridComponent dataSource={virtualData} childMapping = 'Crew'
  enableInfiniteScrolling={true} treeColumnIndex={1} height='291'>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
      <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
      <ColumnDirective field='FIELD2' headerText='Year' width='100'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='FIELD3' headerText='Stint' width='120'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='FIELD4' headerText='TMID' width='120'
textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[InfiniteScroll]} />
  </TreeGridComponent>
};
export default App;

```

InitialBlocks

You can define the initial loading pages count by using `infiniteScrollSettings.initialBlocks` property. By default, this feature loads three pages in initial rendering.

In the below demo, we have changed this property value to load five page records instead of three.

APP.JSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
InfiniteScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
  const pageSettings = { pageSize: 50 };
  const infiniteOptions = { initialBlocks: 5 };
  dataSource();
  return <TreeGridComponent dataSource={virtualData} childMapping='Crew'
height={300} enableInfiniteScrolling={true}
infiniteScrollSettings={infiniteOptions} pageSettings={pageSettings}
treeColumnIndex={1}>

```

```

        <Inject services={[InfiniteScroll]} />
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
            <ColumnDirective field='FIELD2' headerText='Year'
width='100' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD3' headerText='Stint'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD4' headerText='TMID'
width='120' textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
InfiniteScroll, InfiniteScrollSettingsModel, PageSettingsModel } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
    const pageSettings: PageSettingsModel = { pageSize: 50 };
    const infiniteOptions: InfiniteScrollSettingsModel = { initialBlocks: 5 };
    dataSource();
    return <TreeGridComponent dataSource={virtualData} childMapping = 'Crew'
height={300} enableInfiniteScrolling={true} infiniteScrollSettings={
infiniteOptions } pageSettings={ pageSettings } treeColumnIndex={1}>
        <Inject services={[InfiniteScroll]} />
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
            <ColumnDirective field='FIELD2' headerText='Year'
width='100' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD3' headerText='Stint'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD4' headerText='TMID'
width='120' textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>
};
export default App;

```

Cache Mode

Cache is used to store the loaded rows object in the Tree Grid instance which can be reused for creating the row elements whenever you scroll to already visited page. Also, this mode maintains row elements based on the `infiniteScrollSettings.maxBlocks` count value, once this limit exceeds then it will remove row elements from DOM for new rows.

To enable the cache mode in Infinite scrolling, set `infiniteScrollSettings.enableCache` property as true.

APP.JSX

```
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
InfiniteScroll } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
    const pageSettings = { pageSize: 50 };
    const infiniteOptions = { enableCache: true };
    dataSource();
    return <TreeGridComponent dataSource={virtualData} childMapping='Crew'
height={300} enableInfiniteScrolling={true}
infiniteScrollSettings={infiniteOptions} pageSettings={pageSettings}
treeColumnIndex={1}>
        <Inject services={[InfiniteScroll]} />
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
            <ColumnDirective field='FIELD2' headerText='Year'
width='100' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD3' headerText='Stint'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD4' headerText='TMID'
width='120' textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
InfiniteScroll, InfiniteScrollSettingsModel, PageSettingsModel } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { dataSource, virtualData } from './datasource';
function App() {
    const pageSettings: PageSettingsModel = { pageSize: 50 };
    const infiniteOptions: InfiniteScrollSettingsModel = { enableCache: true
};
    dataSource();
    return <TreeGridComponent dataSource={virtualData} childMapping = 'Crew'
height={300} enableInfiniteScrolling={true} infiniteScrollSettings={
infiniteOptions } pageSettings={ pageSettings } treeColumnIndex={1}>
        <Inject services={[InfiniteScroll]} />
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Player Jersey'
width='120' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='FIELD1' headerText='Player Name'
width='120'></ColumnDirective>
            <ColumnDirective field='FIELD2' headerText='Year'
width='100' textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>
```

```

        <ColumnDirective field='FIELD3' headerText='Stint'
width='120' textAlign='Right'></ColumnDirective>
        <ColumnDirective field='FIELD4' headerText='TMID'
width='120' textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
</TreeGridComponent>
};
export default App;

```

Limitations for Infinite Scrolling

- Due to the element height limitation in browsers, the maximum number of records loaded by the tree grid is limited due to the browser capability.
- Initial loading rows total height must be greater than the viewport height.
- Cell selection will not be persisted in cache mode.
- Infinite scrolling is not compatible with batch editing, cell editing, detail template.
- The aggregated information and total group items are displayed based on the current view items. To get these information regardless of the view items, refer to the
- Programmatic selection using the [selectRows](#) and [selectRow](#) method is not supported in infinite scrolling.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Aggregates

Aggregates in React Treegrid component

Aggregate values are displayed in the TreeGrid footer and in parent row footer for child row aggregate values. It can be configured through [aggregates](#) property. [field](#) and [type](#) are the minimum properties required to represent an aggregate column.

To use the aggregate feature, you have to inject the **Aggregate** module.

By default, the aggregate value can be displayed in the treegrid footer, and footer of child rows. To show the aggregate value in one of the cells, use the [Link to the Video](#).

To get start quickly with aggregates functionalities, you can check on this video:

Built-in aggregate types

The aggregate type should be specified in the [type](#) property to configure an aggregate column.

The built-in aggregates are,

- Sum
- Average
- Min
- Max
- Count
- Truecount
- Falsecount

* Multiple aggregates can be used for an aggregate column by setting the [type](#) property

with an array of aggregate types.

* Multiple types for a column is supported only when one of the aggregate templates is used.

Child aggregate

Aggregate value is calculated for child rows, and it is displayed in the parent row footer. Use the [showChildSummary](#) property to render the child rows aggregate value.

APP.JSX

```
import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryRowData } from './datasource';
function App() {
    const footerSum = (props) => {
        return (<span>Minimum: {getObject('Min', props)}</span>);
    };
    const footerSum2 = (props) => {
        return (<span>Maximum: {getObject('Max', props)}</span>);
    };
    return <TreeGridComponent dataSource={summaryRowData}
treeColumnIndex={0} childMapping='children' height='260'>
        <ColumnsDirective>
            <ColumnDirective field='FreightID' headerText='Freight ID'
width='90' textAlign='Right' />
            <ColumnDirective field='FreightName' headerText='Freight Name'
width='195' />
            <ColumnDirective field='UnitWeight' headerText='Weight Per Unit'
width='130' textAlign='Right' type='number' />
            <ColumnDirective field='TotalUnits' headerText='Total Units'
type='number' width='125' textAlign='Right' />
        </ColumnsDirective>
        <AggregatesDirective>
            <AggregateDirective showChildSummary={true}>
                <AggregateColumnsDirective>
                    <AggregateColumnDirective field='TotalUnits'
columnName='TotalUnits' type='Min' footerTemplate={footerSum} />
                    <AggregateColumnDirective field='UnitWeight'
columnName='UnitWeight' type='Max' footerTemplate={footerSum2} />
                </AggregateColumnsDirective>
            </AggregateDirective>
        </AggregatesDirective>
        <Inject services={[Aggregate]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
```

```

import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryRowData } from './datasource';
function App() {
    const footerSum = (props:object) => {
        return(<span>Minimum: {getObject('Min', props)}</span>)
    }
    const footerSum2 = (props: object) => {
        return(<span>Maximum: {getObject('Max', props)}</span>)
    }
    return <TreeGridComponent dataSource={summaryRowData}
treeColumnIndex={0} childMapping='children' height='260'>
        <ColumnsDirective>
            <ColumnDirective field='FreightID' headerText='Freight ID'
width='90' textAlign='Right' />
            <ColumnDirective field='FreightName' headerText='Freight Name'
width='195' />
            <ColumnDirective field='UnitWeight' headerText='Weight Per Unit'
width='130' textAlign='Right' type='number' />
            <ColumnDirective field='TotalUnits' headerText='Total Units'
type='number' width='125' textAlign='Right' />
        </ColumnsDirective>
        <AggregatesDirective>
            <AggregateDirective showChildSummary={true}>
                <AggregateColumnsDirective>
                    <AggregateColumnDirective field='TotalUnits'
columnName='TotalUnits' type='Min'
                    footerTemplate={footerSum}/>
                    <AggregateColumnDirective field='UnitWeight'
columnName='UnitWeight' type='Max'
                    footerTemplate={footerSum2}/>
                </AggregateColumnsDirective>
            </AggregateDirective>
        </AggregatesDirective>
        <Inject services={[Aggregate]} />
    </TreeGridComponent>
};
export default App;

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Footer aggregate in React Treegrid component

Footer aggregate value is calculated for all the rows, and it is displayed in the footer cells. Use the [footerTemplate](#) property to render the aggregate value in footer cells.

APP.JSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryRowData } from './datasource';

```



```
function App() {
  const footerSum = (props) => {
    return (<span>Minimum: {getObject('Min', props)}</span>);
  };
  const footerSum2 = (props) => {
    return (<span>Maximum: {getObject('Max', props)}</span>);
  };
  return <TreeGridComponent dataSource={summaryRowData}
treeColumnIndex={0} childMapping='children' height='260'>
    <ColumnsDirective>
      <ColumnDirective field='FreightID' headerText='Freight ID'
width='130'>/>
      <ColumnDirective field='FreightName' headerText='Freight Name'
width='180'>/>
      <ColumnDirective field='UnitWeight' headerText='Weight Per Unit'
width='130' textAlign='Right' type='number'>/>
      <ColumnDirective field='TotalUnits' headerText='Total Units'
type='number' width='125' textAlign='Right'>/>
    </ColumnsDirective>
    <AggregatesDirective>
      <AggregateDirective showChildSummary={false}>
        <AggregateColumnsDirective>
          <AggregateColumnDirective field='TotalUnits'
columnName='TotalUnits' type='Min' footerTemplate={footerSum}>/>
          <AggregateColumnDirective field='UnitWeight'
columnName='UnitWeight' type='Max' footerTemplate={footerSum2}>/>
        </AggregateColumnsDirective>
      </AggregateDirective>
    </AggregatesDirective>
    <Inject services={[Aggregate]}>/>
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryRowData } from './datasource';
function App() {
  const footerSum = (props: object) => {
    return (<span>Minimum: {getObject('Min', props)}</span>)
  }
  const footerSum2 = (props: object) => {
    return (<span>Maximum: {getObject('Max', props)}</span>)
  }
  return <TreeGridComponent dataSource={summaryRowData}
treeColumnIndex={0} childMapping='children' height='260'>
    <ColumnsDirective>
      <ColumnDirective field='FreightID' headerText='Freight ID'
width='130'>/>
```

```

        <ColumnDirective field='FreightName' headerText='Freight Name'
width='180' />
        <ColumnDirective field='UnitWeight' headerText='Weight Per Unit'
width='130' textAlign='Right' type='number' />
        <ColumnDirective field='TotalUnits' headerText='Total Units'
type='number' width='125' textAlign='Right' />
    </ColumnsDirective>
    <AggregatesDirective>
    <AggregateDirective showChildSummary={false}>
        <AggregateColumnsDirective>
        <AggregateColumnDirective field='TotalUnits'
columnName='TotalUnits' type='Min'
        footerTemplate={footerSum} />
        <AggregateColumnDirective field='UnitWeight'
columnName='UnitWeight' type='Max'
        footerTemplate={footerSum2} />
        </AggregateColumnsDirective>
    </AggregateDirective>
    </AggregatesDirective>
    <Inject services={[Aggregate]} />
</TreeGridComponent>
};
export default App;

```

The aggregate values must be accessed inside the template using their corresponding [type](#) name.

How to format aggregate value

You can format the aggregate value result by using the [format](#) property.

APP.JSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryData } from './datasource';
function App() {
    const footerSum = (props) => {
        return (<span>Total: {getObject('Sum', props)}</span>);
    };
    return <TreeGridComponent dataSource={summaryData} treeColumnIndex={0}
childMapping='subtasks' height='260'>
        <ColumnsDirective>
        <ColumnDirective field='category' headerText='Category'
width='160' />
        <ColumnDirective field='units' headerText='Total Units'
width='130' type='number' textAlign='Right' />
        <ColumnDirective field='unitPrice' headerText='Unit Price($)'
width='110' textAlign='Right' type='number' format='C2' />
        <ColumnDirective field='price' headerText='Price($)'
type='number' width='160' textAlign='Right' format='C2' />
        </ColumnsDirective>
        <AggregatesDirective>
        <AggregateDirective showChildSummary={true}>

```

```

        <AggregateColumnsDirective>
        <AggregateColumnDirective field='price' columnName='price'
type='Sum' footerTemplate={footerSum} format='C2' />
        </AggregateColumnsDirective>
        </AggregateDirective>
    </AggregatesDirective>
    <Inject services={[Aggregate]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryData } from '../datasource';
function App() {
    const footerSum = (props: object) => {
        return(<span>Total: {getObject('Sum', props)}</span>)
    }
    return <TreeGridComponent dataSource={summaryData} treeColumnIndex={0}
childMapping='subtasks' height='260'>
        <ColumnsDirective>
            <ColumnDirective field='category' headerText='Category'
width='160' />
            <ColumnDirective field='units' headerText='Total Units'
width='130' type='number' textAlign='Right' />
            <ColumnDirective field='unitPrice' headerText='Unit Price($)'
width='110' textAlign='Right' type='number' format='C2' />
            <ColumnDirective field='price' headerText='Price($)'
type='number' width='160' textAlign='Right' format='C2' />
        </ColumnsDirective>
        <AggregatesDirective>
            <AggregateDirective showChildSummary={true}>
                <AggregateColumnsDirective>
                    <AggregateColumnDirective field='price' columnName='price'
type='Sum'
                        footerTemplate={footerSum} format='C2' />
                </AggregateColumnsDirective>
            </AggregateDirective>
        </AggregatesDirective>
        <Inject services={[Aggregate]} />
    </TreeGridComponent>
};
export default App;

```

Custom aggregate in React Treegrid component

To calculate the aggregate value with your own aggregate functions, use the custom aggregate option. To use custom aggregation, specify the [type](#) as **Custom**, and provide the custom aggregate function in the [customAggregate](#) property.

APP.JSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryData } from '../datasource';
function App() {
    const footerSum = (props) => {
        return (<span>Total: {getObject('Sum', props)}</span>);
    };
    const customAggregateFn = (row) => {
        const sampleData = getObject('result', row);
        let countLength = 0;
        sampleData.filter((item) => {
            const data = getObject('category', item);
            const value = 'Frozen seafood';
            if (data === value) {
                countLength++;
            }
        });
        return countLength;
    };
    const custom = (props) => {
        return (<span> Count of Frozen seafood: {getObject('Custom',
props)}</span>);
    };
    return <TreeGridComponent dataSource={summaryData} treeColumnIndex={0}
childMapping='subtasks' height='260'>
        <ColumnsDirective>
            <ColumnDirective field='category' headerText='Category'
width='160' />
            <ColumnDirective field='units' headerText='Total Units'
width='130' type='number' textAlign='Right' />
            <ColumnDirective field='unitPrice' headerText='Unit Price($)'
width='90' textAlign='Right' type='number' format='C2' />
            <ColumnDirective field='price' headerText='Price($)'
type='number' width='160' textAlign='Right' format='C' />
        </ColumnsDirective>
        <AggregatesDirective>
            <AggregateDirective showChildSummary={false}>
                <AggregateColumnsDirective>
                    <AggregateColumnDirective field='price'
columnName='category' type='Custom' customAggregate={customAggregateFn}
footerTemplate={custom} />
                </AggregateColumnsDirective>
            </AggregateDirective>
        </AggregatesDirective>
        <Inject services={[Aggregate]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getObject } from '@syncfusion/ej2-grids';
import { Aggregate, AggregatesDirective, ColumnDirective, ColumnsDirective,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { AggregateColumnDirective, AggregateColumnsDirective,
AggregateDirective, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { summaryData } from '../datasource';
function App() {
    const footerSum = (props:object) => {
        return(<span>Total: {getObject('Sum', props)}</span>)
    }
    const customAggregateFn = (row: object) => {
        const sampleData: object[] = getObject('result', row);
        let countLength: number = 0;
        sampleData.filter((item: object) => {
            const data: string = getObject('category', item);
            const value: string = 'Frozen seafood';
            if (data === value) {
                countLength++;
            }
        });
        return countLength;
    }
    const custom = (props: object) => {
        return(<span> Count of Frozen seafood: {getObject('Custom',
props)}</span>)
    }
    return <TreeGridComponent dataSource={summaryData} treeColumnIndex={0}
childMapping='subtasks' height='260'>
        <ColumnsDirective>
            <ColumnDirective field='category' headerText='Category'
width='160' />
            <ColumnDirective field='units' headerText='Total Units'
width='130' type='number' textAlign='Right' />
            <ColumnDirective field='unitPrice' headerText='Unit Price($)'
width='90' textAlign='Right' type='number' format='C2' />
            <ColumnDirective field='price' headerText='Price($)'
type='number' width='160' textAlign='Right' format='C' />
        </ColumnsDirective>
        <AggregatesDirective>
            <AggregateDirective showChildSummary={false}>
                <AggregateColumnsDirective>
                    <AggregateColumnDirective field='price'
columnName='category' type='Custom'
                        customAggregate = {customAggregateFn}
                    />
                </AggregateColumnsDirective>
            </AggregateDirective>
        </AggregatesDirective>
        <Inject services={ [Aggregate]} />
    </TreeGridComponent>
};
export default App;

```

To access the custom aggregate value inside the template, use the key as **Custom**.

Print in React Treegrid component

To print the TreeGrid, use the [print](#) method from treegrid instance. The print option can be displayed on the [toolbar](#) by adding the **Print** toolbar item.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['Print'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='265' toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar, ToolbarItems } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['Print'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
    height='265' toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>
```

```

    <Inject services={[Toolbar]}/>
  </TreeGridComponent>
};
export default App;

```

Page setup

Some of the print options cannot be configured through JavaScript code. So, you have to customize the layout, paper size, and margin options using the browser page setup dialog. Please refer to the following links to know more about the browser page setup:

- [Chrome](#)
- [Firefox](#)
- [Safari](#)
- [IE](#)

Print using an external button

To print the treegrid from an external button, invoke the [print](#) method.

APP.JSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const clickHandler = () => {
    if (treegrid) {
      treegrid.print();
    }
  };
  return (
    <div><ButtonComponent
      onClick={clickHandler}>Print</ButtonComponent>
      <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
      childMapping='subtasks' height='265' ref={g => treegrid = g}>
        <ColumnsDirective>
          <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
          <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
          <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
          <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar]}/>
      </TreeGridComponent></div>);
}
;
export default App;

```

APP.TSX

```
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar, TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const clickHandler = () => {
        if (treegrid) {
            treegrid.print();
        }
    }
    return (
        <div>
            <ButtonComponent onClick={clickHandler}>Print</ButtonComponent>
            <TreeGridComponent
                dataSource={sampleData}
                treeColumnIndex={1}
                childMapping='subtasks'
                height='265'
                ref={g => treegrid = g}
                <ColumnsDirective>
                    <ColumnDirective
                        field='taskID'
                        headerText='Task ID'
                        width='90'
                        textAlign='Right'
                    />
                    <ColumnDirective
                        field='taskName'
                        headerText='Task Name'
                        width='180'
                    />
                    <ColumnDirective
                        field='startDate'
                        headerText='Start Date'
                        width='90'
                        format='yMd'
                        textAlign='Right'
                        type='date'
                    />
                    <ColumnDirective
                        field='duration'
                        headerText='Duration'
                        width='80'
                        textAlign='Right'
                    />
                </ColumnsDirective>
                <Inject services={[Toolbar]} />
            </TreeGridComponent>
        </div>
    );
}
export default App;
```

Print the visible page

By default, the treegrid prints all the pages. To print the current page alone, set the [printMode](#) to **CurrentPage**.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Page, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const toolbarOptions = ['Print'];
    const pageSettings = { pageSize: 8 };
    return (
        <TreeGridComponent
            dataSource={sampleData}
            treeColumnIndex={1}
            childMapping='subtasks'
            height='220'
            toolbar={toolbarOptions}
            allowPaging={true}
            pageSettings={pageSettings}
            printMode='CurrentPage'
            <ColumnsDirective>
                <ColumnDirective
                    field='taskID'
                    headerText='Task ID'
                    width='90'
                    textAlign='Right'
                />
            </ColumnsDirective>
        </TreeGridComponent>
    );
}
```



```

        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Toolbar, Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Inject, Page, PageSettingsModel, Toolbar, ToolbarItems } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['Print'];
    const pageSettings: PageSettingsModel = { pageSize: 8 };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    height='220' toolbar={toolbarOptions} allowPaging={true}
pageSettings={pageSettings}
    printMode='CurrentPage'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar, Page]} />
    </TreeGridComponent>
};
export default App;

```

Print large number of columns

By default, the browser uses A4 as page size option to print pages and to adapt the size of the page the browser print preview will auto-hide the overflowed contents. Hence treegrid with large number of columns will cut off to adapt the print page.

To show large number of columns when printing, adjust the scale option from print option panel based on your content size.



Show or Hide columns while Printing

You can show a hidden column or hide a visible column while printing the treegrid using [toolbarClick](#) and [printComplete](#) events.

In the [toolbarClick](#) event, based on **args.item.text** as *Print*. We can show or hide columns by setting [column.visible](#) property to *true* or *false* respectively.

In the [printComplete](#) event, We have reversed the state back to the previous state.

In the below example, we have **Duration** as a hidden column in the treegrid. While printing, we have changed **Duration** to visible column and **StartDate** as hidden column.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid;
  const toolbarOptions = ['Print'];
  const toolbarClick = (args) => {
    if (treegrid && args.item.text === 'Print') {
      const cols = treegrid.grid.columns;
      for (const col of cols) {
        if (col.field === "duration") {
          col.visible = true;
        }
        else if (col.field === "startDate") {
          col.visible = false;
        }
      }
    }
  };
  const printComplete = (args) => {
    if (treegrid) {
```

```

        const cols = treegrid.grid.columns;
        for (const col of cols) {
            if (col.field === "duration") {
                col.visible = false;
            }
            else if (col.field === "StartDate") {
                col.visible = true;
            }
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='265' toolbar={toolbarOptions}
    toolbarClick={toolbarClick} ref={g => treegrid = g}
    printComplete={printComplete}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' visible={false} />
        </ColumnsDirective>
        <Inject services={[Toolbar]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Column, Inject, Toolbar, ToolbarItems, TreeGrid } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const toolbarOptions: ToolbarItems[] = ['Print'];
    const toolbarClick = (args: any): void => {
        if (treegrid && args.item.text === 'Print') {
            const cols: Column[] = treegrid.grid.columns as Column[];
            for (const col of cols) {
                if (col.field === "duration") {
                    col.visible = true;
                }
                else if (col.field === "startDate") {
                    col.visible = false;
                }
            }
        }
    }
    const printComplete = (args: any): void => {

```

```

    if (treegrid) {
      const cols: Column[] = treegrid.grid.columns as Column[];
      for (const col of cols) {
        if (col.field === "duration") {
          col.visible = false;
        }
        else if (col.field === "StartDate") {
          col.visible = true;
        }
      }
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    height='265' toolbar={toolbarOptions} toolbarClick={toolbarClick}
    ref={g => treegrid = g} printComplete={printComplete}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' visible={false} />
    </ColumnsDirective>
    <Inject services={[Toolbar]} />
  </TreeGridComponent>
  };
export default App;

```

Limitations of Printing Large Data

When treegrid contains large number of data, printing all the data at once is not a best option for the browser performance. Because to render all the DOM elements in one page will produce performance issues in the browser. It leads to browser slow down or browser hang.

If printing of all the data is still needed, we suggest to Export the treegrid to **Excel** or **CSV** or **Pdf** and then print it from another non-web based application.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Adaptive in React Treegrid component

The Grid user interface (UI) was redesigned to provide an optimal viewing experience and improve usability on small screens. This interface will render the filter, sort, and edit dialogs adaptively and have an option to render the Tree Grid row elements in the horizontal direction.

Render adaptive dialogs

When you enable the [enableAdaptiveUI](#) property, the grid will render the filter, sort, and edit dialogs in full screen for a better user experience. The following demo demonstrates this behaviour.

APP.JSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
  Filter, Sort, Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';

```

```

import { Browser } from "@syncfusion/ej2-base";
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel',
    'Search'];
    const editSettings = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Dialog' };
    const filterOptions = { type: 'Excel' };
    let treegrid;
    const load = () => {
        const ID = !Browser.isDevice ? 'adaptivebrowser' : 'adaptivedevice';
        treegrid = document.getElementById(ID).ej2_instances[0];
        treegrid.grid.adaptiveDlgTarget = document.getElementsByClassName('e-
mobile-content')[0];
    };
    return (<div className='control-pane'>
        <div className='control-section'>
            <div className="col-md-9 e-bigger e-adaptive-demo">
                {!Browser.isDevice ? (<div className="e-mobile-layout">
                    <div className="e-mobile-content">
                        <TreeGridComponent id="adaptivebrowser"
dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
height='100%' enableAdaptiveUI={true} allowFiltering={true}
allowSorting={true} allowPaging={true} filterSettings={filterOptions}
toolbar={toolbarOptions} editSettings={editSettings} load={load}>
                            <ColumnsDirective>
                                <ColumnDirective field='taskID' headerText='Task ID'
isPrimaryKey={true} width='135' textAlign='Right'></ColumnDirective>
                                <ColumnDirective field='taskName' headerText='Task
Name' width='280'></ColumnDirective>
                                <ColumnDirective field='duration'
headerText='Duration' width='140' textAlign='Right'>
                                <ColumnDirective field='progress'
headerText='Progress' width='145' textAlign='Right'>
                                </ColumnsDirective>
                                <Inject services={[Filter, Sort, Edit, Toolbar,
Page]}/>
                            </TreeGridComponent>
                        </div>
                    </div>) : (<TreeGridComponent id="adaptivedevice"
dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
height='100%' enableAdaptiveUI={true} allowFiltering={true}
allowSorting={true} allowPaging={true} filterSettings={filterOptions}
toolbar={toolbarOptions} editSettings={editSettings} load={load}>
                            <ColumnsDirective>
                                <ColumnDirective field='taskID' headerText='Task ID'
isPrimaryKey={true} width='135' textAlign='Right'></ColumnDirective>
                                <ColumnDirective field='taskName' headerText='Task Name'
width='280'></ColumnDirective>
                                <ColumnDirective field='duration' headerText='Duration'
width='140' textAlign='Right'>
                                <ColumnDirective field='progress' headerText='Progress'
width='145' textAlign='Right'>
                                </ColumnsDirective>
                                <Inject services={[Filter, Sort, Edit, Toolbar, Page]}/>
                            </TreeGridComponent>) }

```

```

        </div>
      </div>
    </div>);
  }
;
export default App;

```

APP.TSX

```

import { TreeGridComponent, ColumnsDirective, ColumnDirective, Inject,
Filter, Sort, Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
import { Browser } from '@syncfusion/ej2-base';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: any = ['Add', 'Edit', 'Delete', 'Update', 'Cancel',
'Search'];
  const editSettings: any = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Dialog' };
  const filterOptions: any = { type: 'Excel' };
  let treegrid: TreeGridComponent;
  const load = (): void => {
    const ID: string = !Browser.isDevice ? 'adaptivebrowser' :
'adaptivedevice';
    treegrid = document.getElementById(ID).ej2_instances[0];
    treegrid.grid.adaptiveDlgTarget = document.getElementsByClassName('e-
mobile-content')[0] as HTMLElement;
  }
  return (
    <div className='control-pane'>
      <div className='control-section'>
        <div className="col-md-9 e-bigger e-adaptive-demo">
          {!Browser.isDevice ? (
            <div className="e-mobile-layout">
              <div className="e-mobile-content">
                <TreeGridComponent id="adaptivebrowser"
dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
height='100%' enableAdaptiveUI={true} allowFiltering={true}
allowSorting={true} allowPaging={true} filterSettings={filterOptions}
toolbar={toolbarOptions} editSettings={editSettings} load={load}>
                  <ColumnsDirective>
                    <ColumnDirective field='taskID' headerText='Task ID'
isPrimaryKey={true} width='135' textAlign='Right'></ColumnDirective>
                    <ColumnDirective field='taskName' headerText='Task
Name' width='280'></ColumnDirective>
                    <ColumnDirective field='duration'
headerText='Duration' width='140' textAlign='Right' />
                    <ColumnDirective field='progress'
headerText='Progress' width='145' textAlign='Right' />
                  </ColumnsDirective>
                  <Inject services={[Filter, Sort, Edit, Toolbar, Page]}
/>
                </TreeGridComponent>
              </div>
            </div>
          ) : (

```

```

        <TreeGridComponent id="adaptivedevice"
        dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
        height='100%' enableAdaptiveUI={true} allowFiltering={true}
        allowSorting={true} allowPaging={true} filterSettings={filterOptions}
        toolbar={toolbarOptions} editSettings={editSettings} load={load}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID'
                isPrimaryKey={true} width='135' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='taskName' headerText='Task Name'
                width='280'></ColumnDirective>
                <ColumnDirective field='duration' headerText='Duration'
                width='140' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='progress' headerText='Progress'
                width='145' textAlign='Right'></ColumnDirective>
            </ColumnsDirective>
            <Inject services={[Filter, Sort, Edit, Toolbar, Page]} />
        </TreeGridComponent>
    )}
</div>
</div>
</div>
)
};
export default App;

```

Please refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to learn how to present and manipulate data.

Loading animation in React Treegrid component

The Tree Grid displays a loading indicator while the data is being fetched and bound to the tree grid during initial rendering, refreshing, and after performing any tree grid actions like sorting, filtering, and more.

The tree grid supports two indicator types, which can be enabled by setting the `loadingIndicator.indicatorType` property to `Spinner` or `Shimmer`. The default value of the indicator type is `Spinner`.

In the following sample, the Shimmer indicator is displayed while the tree grid is loading and refreshing when using the remote data.

APP.JSX

```

{% raw %}
import { DataManager, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent,
Sort } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
    const pageSettings = { pageCount: 3 };
    const data = new DataManager({
        adaptor: new WebApiAdaptor,
        crossDomain: true,
        url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
    });
}

```

```

    return <TreeGridComponent dataSource={data} hasChildMapping='isParent'
    treeColumnIndex={1} idMapping='TaskID' parentIdMapping='ParentItem'
    height='400' loadingIndicator={{ indicatorType: 'Shimmer' }}
    allowPaging={true} allowSorting={true} pageSettings={pageSettings}>
      <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='120'
        textAlign='Right' />
        <ColumnDirective field='TaskName' headerText='Task Name'
        width='240' textAlign='Left' />
        <ColumnDirective field='StartDate' headerText='Start Date'
        width='140' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='Duration' headerText='Duration'
        width='130' textAlign='Right' />
        <ColumnDirective field='Progress' headerText='Progress'
        width='130' />
      </ColumnsDirective>
      <Inject services={[Page, Sort]} />
    </TreeGridComponent>;
  }
;
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import { DataManager, WebApiAdaptor } from '@syncfusion/ej2-data';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent,
Sort, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
function App() {
  const pageSettings: PageSettingsModel = { pageCount: 3 };
  const data = new DataManager({
    adaptor: new WebApiAdaptor,
    crossDomain: true,
    url: 'https://ej2services.syncfusion.com/production/web-
services/api/SelfReferenceData'
  });
  return <TreeGridComponent dataSource={data} hasChildMapping='isParent'
  treeColumnIndex={1} idMapping='TaskID' parentIdMapping='ParentItem'
  height='400' loadingIndicator={{ indicatorType: 'Shimmer' }}
  allowPaging={true} allowSorting={true} pageSettings={pageSettings}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='120'
      textAlign='Right' />
      <ColumnDirective field='TaskName' headerText='Task Name'
      width='240' textAlign='Left' />
      <ColumnDirective field='StartDate' headerText='Start Date'
      width='140' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='Duration' headerText='Duration'
      width='130' textAlign='Right' />
      <ColumnDirective field='Progress' headerText='Progress'
      width='130' />
    </ColumnsDirective>
    <Inject services={[Page, Sort]} />
  </TreeGridComponent>

```



```
};
export default App;
{% enddraw %}
```

State Persistence

State persistence in React Treegrid component

State persistence refers to the TreeGrid's state maintained in the browser's [localStorage](#) even if the browser is refreshed or if you move to the next page within the browser.

State persistence stores treegrid's model object in the local storage when the [enablePersistence](#) is defined as true.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Get or set local storage value in React Treegrid component

If the [enablePersistence](#) property is set to true, the treegrid property value is saved in the **window.localStorage** for reference. You can get/set the localStorage value by using the **getItem/setItem** method in the **window.localStorage**.

```
`ts
// get the TreeGrid model.
const value: string = window.localStorage.getItem('treegridTreeGrid') as string;
// "treegridTreeGrid" is component name + component id.
const model: object = JSON.parse(value);
`
`ts
// set the TreeGrid model.
// "treegridTreeGrid" is component name + component id.
window.localStorage.setItem('treegridTreeGrid', JSON.stringify(model));
`
```

Tool Bar

Tool bar in React Treegrid component

The TreeGrid provides Toolbar support to handle treegrid actions. The [toolbar](#) property accepts either the collection of built-in toolbar items and [ItemModel](#) objects for custom toolbar items or HTML element ID for toolbar template.

To use Toolbar, inject **Toolbar** module in the treegrid.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Tool bar items in React Treegrid component

Built-in toolbar items

Built-in toolbar items execute standard actions of the treegrid, and it can be added by defining the [toolbar](#)

as a collection of built-in items. It renders the button with icon and text.

The following table shows built-in toolbar items and its actions.

Built-in Toolbar Items Actions	
----- -----	
ExpandAll	Expands all the rows.
CollapseAll	Collapses all the rows.
Add	Adds a new record.
Edit	Edits the selected record.
Update	Updates the edited record.
Delete	Deletes the selected record.
Cancel	Cancels the edit state.
Search	Searches the records by the given key.
Print	Prints the treegrid.
ExcelExport	Exports the treegrid to Excel.
PdfExport	Exports the treegrid to PDF.
WordExport	Exports the treegrid to Word.
Indent	Indents the record to one level of hierarchy.
Outdent	Outdents the record to one level of hierarchy.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const toolbarOptions = ['Print', 'Search'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' height='265' toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
}
```

```

        </ColumnsDirective>
        <Inject services={[Toolbar, Filter]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar, ToolbarItems } from '@syncfusion/ej2-
 react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['Print', 'Search'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
        height='265' toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar, Filter]}/>
    </TreeGridComponent>
};
export default App;

```

* The [toolbar](#) has options to define both built-in and custom toolbar items.

Custom toolbar items

Custom toolbar items can be added by defining the [toolbar](#) as a collection of [ItemModels](#). Actions for this customized toolbar items are defined in the [toolbarClick](#) event.

By default, Custom toolbar items are in position **Left**. You can change the position by using the [align](#) property. In the below sample, we have applied position **Right** for the **Quick Filter** toolbar item.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    let treegrid;
    const toolbarOptions = [
        { text: 'Quick Filter', tooltipText: 'Quick Filter', id:
        'toolbarfilter', align: 'Right' }
    ];

```

```

];
const toolbarClick = (args) => {
  if (treegrid && args.item.text === 'Quick Filter') {
    treegrid.filterByColumn("taskName", "startswith", "Testing");
  }
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowFiltering={true} height='220'
toolbar={toolbarOptions} toolbarClick={toolbarClick} ref={g => treegrid =
g}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Toolbar, Filter]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar, TreeGrid } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const toolbarOptions: object[] = [
    { text: 'Quick Filter', tooltipText: 'Quick Filter', id:
'toolbarfilter', align: 'Right' }
  ];
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid && args.item.text === 'Quick Filter') {
      treegrid.filterByColumn("taskName", "startswith", "Testing");
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowFiltering={true} height='220' toolbar={toolbarOptions}
toolbarClick={toolbarClick}
ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='160' />

```

```

        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Toolbar,Filter]}/>
</TreeGridComponent>
};
export default App;

```

* The [toolbar](#) has options to define both built-in and custom toolbar items.

* If a toolbar item does not match the built-in items, it will be treated as a custom toolbar item.

Built-in and custom items in toolbar

TreeGrid have an option to use both built-in and custom toolbar items at same time.

In the below example, **ExpandAll**, **CollapseAll** are built-in toolbar items and *Click* is custom toolbar item.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    const toolbarOptions = [
        'ExpandAll', 'CollapseAll',
        { text: 'Click', tooltipText: 'Click', id: 'Click', prefixIcon: 'e-
time' }
    ];
    const toolbarClick = (args) => {
        if (treegrid && args.item.text === 'Click') {
            alert("Custom toolbar click...");
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' ref={g => treegrid = g} toolbar={toolbarOptions}
toolbarClick={toolbarClick}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Toolbar, TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const toolbarOptions: any[] = [
        'ExpandAll', 'CollapseAll',
        { text: 'Click', tooltipText: 'Click', id: 'Click', prefixIcon: 'e-
time' }
    ];
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid && args.item.text === 'Click') {
            alert("Custom toolbar click...");
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    ref={g => treegrid = g} toolbar={toolbarOptions}
toolbarClick={toolbarClick}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='160' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar]} />
    </TreeGridComponent>
};
export default App;
```

Enable or disable toolbar items

You can enable/disable toolbar items by using the `enableItems` method.

APP.JSX

```
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    let treegrid;
    const toolbarOptions = ['QuickFilter', 'ClearFilter'];
    const enable = () => {
        if (treegrid) {
            // Enable toolbar items.
            treegrid.toolbarModule

```

```

        .enableItems([treegrid.element.id +
'_gridcontrol_QuickFilter', treegrid.element.id +
'_gridcontrol_ClearFilter'], true);
    }
};
const disable = () => {
    if (treegrid) {
        // Disable toolbar items.
        treegrid.toolbarModule
            .enableItems([treegrid.element.id +
'_gridcontrol_QuickFilter', treegrid.element.id +
'_gridcontrol_ClearFilter'], false);
    }
};
const toolbarClick = (args) => {
    if (treegrid) {
        if (args.item.text === 'QuickFilter') {
            treegrid.filterByColumn('taskName', 'startswith',
'Testing');
        }
        if (args.item.text === 'ClearFilter') {
            treegrid.clearFiltering();
        }
    }
};
return (<div><ButtonComponent className='e-flat'
onClick={enable}>Enable</ButtonComponent>
<ButtonComponent className='e-flat'
onClick={disable}>Disable</ButtonComponent>
<TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='200' ref={g => treegrid = g}
toolbar={toolbarOptions} toolbarClick={toolbarClick} allowFiltering={true}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'/>
        <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date'/>
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right'/>
    </ColumnsDirective>
    <Inject services={[Toolbar, Filter]}/>
</TreeGridComponent></div>);
}
;
export default App;

```

APP.TSX

```

import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar, TreeGrid } from '@syncfusion/ej2-react-
treegrid';

```

```

import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const toolbarOptions: string[] = ['QuickFilter', 'ClearFilter'];
  const enable = () => {
    if (treegrid) {
      // Enable toolbar items.
      treegrid.toolbarModule
        .enableItems([treegrid.element.id +
'_gridcontrol_QuickFilter', treegrid.element.id +
'_gridcontrol_ClearFilter'], true);
    }
  }
  const disable = () => {
    if (treegrid) {
      // Disable toolbar items.
      treegrid.toolbarModule
        .enableItems([treegrid.element.id +
'_gridcontrol_QuickFilter', treegrid.element.id +
'_gridcontrol_ClearFilter'], false);
    }
  }
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      if (args.item.text === 'QuickFilter') {
        treegrid.filterByColumn('taskName', 'startswith',
'Testing');
      }
      if (args.item.text === 'ClearFilter') {
        treegrid.clearFiltering();
      }
    }
  }
  return (<div><ButtonComponent className='e-flat' onClick= { enable
}>Enable</ButtonComponent>
  <ButtonComponent className='e-flat' onClick= { disable
}>Disable</ButtonComponent>
  <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' height='200'
    ref={g => treegrid = g} toolbar={toolbarOptions}
toolbarClick={toolbarClick} allowFiltering={true}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Toolbar, Filter]} />
  </TreeGridComponent></div>);
};
export default App;

```


Pdf Export

Pdf export in React Treegrid component

PDF export allows exporting TreeGrid data to PDF document. You need to use the [pdfExport](#) method for exporting. To enable PDF export in the treegrid, set the [allowPdfExport](#) as [Link to the Video](#).

To get start quickly with exporting functionalities, you can check on this video:

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['PdfExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;
    const toolbarClick = (args) => {
        if (treegrid && args.item.text === 'PDF Export') {
            treegrid.pdfExport();
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
    treegrid = g} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, PdfExport]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport'];
```

```

const pageSettings: PageSettingsModel = { pageSize: 7 };
let treegrid: TreeGridComponent | null;
const toolbarClick = (args: ClickEventArgs): void => {
  if (treegrid && args.item.text === 'PDF Export') {
    treegrid.pdfExport();
  }
}
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>
};
export default App;

```

Custom data source

PDF export provides an option to define datasource dynamically before exporting. To export data dynamically, define the `dataSource` in `PdfExportProperties`.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['PdfExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid) {
      const exportProperties = {
        dataSource: sampleData,
      };
      treegrid.pdfExport(exportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>

```

```

        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent | null;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid) {
            const exportProperties: PdfExportProperties = {
                dataSource: sampleData,
            };
            treegrid.pdfExport(exportProperties);
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, PdfExport]} />
    </TreeGridComponent>
};

```

```
export default App;
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Pdf export options in React Treegrid component

Export hidden columns

PDF export provides an option to export hidden columns of TreeGrid by defining the `includeHiddenColumn` as **true**.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const toolbarOptions = ['PdfExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid) {
      const exportProperties = {
        includeHiddenColumn: true
      };
      treegrid.pdfExport(exportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
      treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' visible={false}
        headerText='Duration' width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
  TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
```

```

import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['PdfExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      const exportProperties: PdfExportProperties = {
        includeHiddenColumn: true
      };
      treegrid.pdfExport(exportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
  height='220'
    toolbarClick={toolbarClick} ref={g => treegrid = g}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
  width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' visible={false}
  headerText='Duration' width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
  </TreeGridComponent>
</>
};
export default App;

```

Show or hide columns on exported PDF

You can show a hidden column or hide a visible column while exporting the treegrid using [toolbarClick](#) and [pdfExportComplete](#) events.

In the [toolbarClick](#) event, based on **args.item.text** as **PDF Export**. We can show or hide columns by setting [column.visible](#) property to **true** or **false** respectively.

In the pdfExportComplete event, We have reversed the state back to the previous state.

In the below example, we have *Duration* as a hidden column in the treegrid. While exporting, we have changed *Duration* to visible column and *StartDate* as hidden column.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';

```

```
function App() {
  const toolbarOptions = ['PdfExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid) {
      const cols = treegrid.grid.columns;
      cols[2].visible = false;
      cols[3].visible = true;
      treegrid.pdfExport();
    }
  };
  const pdfExportComplete = () => {
    if (treegrid) {
      const cols = treegrid.grid.columns;
      cols[3].visible = false;
      cols[2].visible = true;
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
  treegrid = g} toolbar={toolbarOptions}
  pdfExportComplete={pdfExportComplete}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' visible={false}
      headerText='Duration' width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
  </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { Column, ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['PdfExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      const cols: Column[] = treegrid.grid.columns as Column[];
```

```

        cols[2].visible = false;
        cols[3].visible = true;
        treegrid.pdfExport();
    }
}
const pdfExportComplete = (): void => {
    if (treegrid) {
        const cols: Column[] = treegrid.grid.columns as Column[];
        cols[3].visible = false;
        cols[2].visible = true;
    }
}
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions} pdfExportComplete={pdfExportComplete}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' visible={false}
headerText='Duration' width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>
};
export default App;

```

How to change page orientation

Page orientation can be changed Landscape(Default Portrait) for the exported document using the PdfExportProperties.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['PdfExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;
    const toolbarClick = (args) => {
        if (treegrid) {
            const pdfExportProperties = {
                pageOrientation: 'Landscape'
            };
            treegrid.pdfExport(pdfExportProperties);
        }
    };
};

```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
    treegrid = g} toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Toolbar, PdfExport]} />
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['PdfExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      const pdfExportProperties: PdfExportProperties = {
        pageOrientation: 'Landscape'
      };
      treegrid.pdfExport(pdfExportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
  height='220'
    toolbarClick={toolbarClick} ref={g => treegrid = g}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
    </ColumnsDirective>
  </TreeGridComponent>

```



```

        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>
};
export default App;

```

How to change page size

Page size can be customized for the exported document using the PdfExportProperties.

Supported page sizes are:

- Letter
- Note
- Legal
- A0
- A1
- A2
- A3
- A5
- A6
- A7
- A8
- A9
- B0
- B1
- B2
- B3
- B4
- B5
- ArchA
- ArchB
- ArchC
- ArchD
- ArchE
- FlsA
- HalfLetter
- Letter11x17
- Ledger

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const toolbarOptions = ['PdfExport'];

```

```

const pageSettings = { pageSize: 7 };
let treegrid;
const toolbarClick = (args) => {
  if (treegrid) {
    const pdfExportProperties = {
      pageSize: 'Letter'
    };
    treegrid.pdfExport(pdfExportProperties);
  }
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegrid = g} toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['PdfExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      const pdfExportProperties: PdfExportProperties = {
        pageSize: 'Letter'
      };
      treegrid.pdfExport(pdfExportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'

```

```

        toolbarClick={toolbarClick} ref={g => treegrid = g}
      toolbar={toolbarOptions}>
        <ColumnsDirective>
          <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
          <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
          <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
          <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, PdfExport]} />
      </TreeGridComponent>
    };
    export default App;

```

To customize PDF export

PDF export provides an option to customize mapping of treegrid to exported PDF document.

File name for exported document

You can assign the file name for the exported document by defining `fileName` property in `PdfExportProperties`

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['PdfExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid) {
      const exportProperties = {
        fileName: "new.pdf"
      };
      treegrid.pdfExport(exportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
      treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>

```

```

        </ColumnsDirective>
        <Inject services={[Page, Toolbar, PdfExport]}/>
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent | null;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid) {
            const exportProperties: PdfExportProperties = {
                fileName: "new.pdf"
            };
            treegrid.pdfExport(exportProperties);
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'
    toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, PdfExport]}/>
    </TreeGridComponent>
};
export default App;

```

Default fonts for PDF exporting

By default, treegrid uses **Helvetica** font in the exported document. You can change the default font by using `PdfExportProperties.theme` property. The available default fonts are,

- Helvetica
- TimesRoman
- Courier
- Symbol
- ZapfDingbats

The code example for changing default font,

```
`ts
```

```
import { PdfFontFamily, PdfFontStyle, PdfStandardFont } from '@syncfusion/ej2-pdf-export';
```

```
...
```

```
const pdfExportProperties: PdfExportProperties = {
```

```
  theme: {
```

```
    header: {font: new PdfStandardFont(PdfFontFamily.TimesRoman, 11, PdfFontStyle.Bold)},
```

```
    record: { font: new PdfStandardFont(PdfFontFamily.TimesRoman, 10) }
```

```
  }
```

```
}
```

```
,
```

[Add custom font for PDF exporting](#)

You can change the default font of TreeGrid header, content and caption cells in the exported document by using `PdfExportProperties.theme` property.

In the following example, we have used Advent Pro font to export the treegrid with Hungarian fonts.

APP.JSX

```
import { PdfTrueTypeFont } from '@syncfusion/ej2-pdf-export';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
import { adventProFont } from '../font';

function App() {
  const toolbarOptions = ['PdfExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid) {
      const pdfExportProperties = {
        theme: {
          header: { font: new PdfTrueTypeFont(adventProFont, 12)
        },
        record: { font: new PdfTrueTypeFont(adventProFont, 9) }
      };
      treegrid.pdfExport(pdfExportProperties);
    }
  };
};
```

```

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
    treegrid = g} toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Toolbar, PdfExport]} />
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { PdfTrueTypeFont } from '@syncfusion/ej2-pdf-export';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
import { adventProFont } from '../font';
function App() {
  const toolbarOptions: ToolbarItems[] = ['PdfExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      const pdfExportProperties: PdfExportProperties = {
        theme: {
          header: { font: new PdfTrueTypeFont(adventProFont, 12)
},
          record: { font: new PdfTrueTypeFont(adventProFont, 9) }
        }
      };
      treegrid.pdfExport(pdfExportProperties);
    }
  }

  return <TreeGridComponent dataSource={sampleData}
treeColumnIndex={1} childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings}
allowPdfExport={true} height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
    <ColumnsDirective>

```

```

        <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>
};
export default App;

```

FONT.JSX

```

export let adventProFont =
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```

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```

PdfTrueTypeFont accepts base 64 format of the Custom Font.

Pdf cell style customization in React Treegrid component

Conditional cell formatting

TreeGrid cells in the exported PDF can be customized or formatted using [pdfQueryCellInfo](#) event. In this event, we can format the treegrid cells of exported PDF document based on the column cell value.

In the below sample, we have set the background color for *Duration* column in the exported document by **args.cell** and *backgroundColor* property.

APP.JSX

```
import { getObject } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['PdfExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid) {
      treegrid.pdfExport();
    }
  };
  const pdfQueryCellInfo = (args) => {
    if (args.column.field === 'duration') {
      if (getObject('duration', args.data) === 0) {
        args.style = { backgroundColor: '#336c12' };
      }
      else if (getObject('duration', args.data) < 3) {
        args.style = { backgroundColor: '#7b2b1d' };
      }
    }
  };
  const queryCellInfo = (args) => {
    if (args.column.field === 'duration') {
      if (getObject('duration', args.data) === 0) {
        args.cell.style.background = '#336c12';
      }
      else if (getObject('duration', args.data) < 3) {
```

```

        args.cell.style.background = '#7b2b1d';
    }
}
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegrid = g} toolbar={toolbarOptions} pdfQueryCellInfo={pdfQueryCellInfo}
queryCellInfo={queryCellInfo}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { Column, getObject, PdfQueryCellInfoEventArgs,
QueryCellInfoEventArgs } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent | null;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid) {
            treegrid.pdfExport();
        }
    }
    const pdfQueryCellInfo = (args: PdfQueryCellInfoEventArgs): void => {
        if((args.column as Column).field === 'duration'){
            if(getObject('duration', args.data) === 0) {
                args.style = {backgroundColor: '#336c12'};
            }
            else if(getObject('duration', args.data) < 3) {
                args.style = {backgroundColor: '#7b2b1d'};
            }
        }
    }
    const queryCellInfo = (args: QueryCellInfoEventArgs): void => {

```

```

        if ((args.column as Column).field === 'duration') {
            if (getObject('duration', args.data) === 0) {
                (args.cell as HTMLTableCellElement).style.background=
                '#336c12';
            } else if (getObject('duration', args.data) < 3) {
                (args.cell as HTMLTableCellElement).style.background=
                '#7b2b1d';
            }
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
        allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
    height='220'
        toolbarClick={toolbarClick} ref={g => treegrid = g}
        toolbar={toolbarOptions} pdfQueryCellInfo={pdfQueryCellInfo}
    queryCellInfo={queryCellInfo}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
    textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
    width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
    width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
    width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, PdfExport]} />
    </TreeGridComponent>
};
export default App;

```

Theme

PDF export provides an option to include theme for exported PDF document.

To apply theme in exported PDF, define the `theme` in `PdfExportProperties`.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['PdfExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;
    const toolbarClick = (args) => {
        if (treegrid) {
            const exportProperties = {
                theme: {
                    header: {
                        bold: true,
                        border: { color: '#64FA50' },

```

```

        fontColor: '#64FA50', fontName: 'Calibri', fontSize:
17
        },
        record: {
            bold: true, fontColor: '#64FA50', fontName:
'Calibri', fontSize: 17
        }
    };
    treegrid.pdfExport(exportProperties);
}
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent | null;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid) {
            const exportProperties: PdfExportProperties = {
                theme: {
                    header: {
                        bold: true,
                        border: { color: '#64FA50' },
                        fontColor: '#64FA50', fontName: 'Calibri', fontSize: 17
                    },
                    record: {

```



```

        bold: true, fontColor: '#64FA50', fontName: 'Calibri',
        fontSize: 17
    }
    };
    treegrid.pdfExport(exportProperties);
}
}
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
    <ColumnsDirective>
        <ColumnDirective field='taskId' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>
};
export default App;

```

By default, material theme is applied to exported PDF document.

Adding header and footer in React Treegrid component

You can customize text, page number, line, page size and changing orientation in header and footer.

How to write a text in header or footer

You can add text either in Header or Footer of exported PDF document.

```
`ts
```

```

const exportProperties: PdfExportProperties = {
header: {
contents: [
{
position: { x: 0, y: 50 },
style: { textBrushColor: '#000000', fontSize: 13 },
type: 'Text',
value: "Task Details"
}
],

```



```

fromTop: 0,
height: 130
}
}
`

```

How to draw a line in header or footer

you can add line either in Header or Footer of the exported PDF document.

Supported line styles:

- dash
- dot
- dashdot
- dashdotdot
- solid

```

`ts
const exportProperties: PdfExportProperties = {
header: {
contents: [
{
type: 'Line',
style: { penColor: '#000080', penSize: 2, dashStyle: 'Solid' },
points: { x1: 0, y1: 4, x2: 685, y2: 4 }
}
],
fromTop: 0,
height: 130
}
}
`

```

Add page number in header or footer

you can add page number either in Header or Footer of exported PDF document.

Supported page number types:

- LowerLatin - a, b, c,
- UpperLatin - A, B, C,
- LowerRoman - i, ii, iii,
- UpperRoman - I, II, III,

- Number - 1,2,3.

```
`ts
const exportProperties: PdfExportProperties = {
  header: {
    contents: [
      {
        format: 'Page {$current} of {$total}', // optional
        pageNumberType: 'Arabic',
        position: { x: 0, y: 25 },
        style: { textBrushColor: '#ffff80', fontSize: 15, hAlign: 'Center' },
        type: 'PageNumber'
      }
    ],
    fromTop: 0,
    height: 130
  }
},
`
```

Insert an image in header or footer

Image (Base64 string) can be added in the exported document in header/footer using the PdfExportProperties.

```
`ts
let exportProperties: PdfExportProperties = {
  header: {
    fromTop: 0,
    height: 130,
    contents: [
      {
        type: 'Image',
        src: image,
        position: { x: 40, y: 10 },
        size: { height: 100, width: 250 },
      }
    ]
  }
},
`
```

```

]
}
}
,

```

The below code illustrates the pdf export customization.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
import { image } from './image';
function App() {
    const toolbarOptions = ['PdfExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;
    const toolbarClick = (args) => {
        if (treegrid) {
            const pdfExportProperties = {
                footer: {
                    contents: [
                        {
                            format: 'Page {$current} of {$total}',
                            pageNumberType: 'Arabic',
                            position: { x: 0, y: 25 },
                            style: { textBrushColor: '#ffff80', fontSize: 15
                        },
                        type: 'PageNumber'
                    ]
                },
                fromBottom: 160,
                height: 150
            },
            header: {
                contents: [
                    {
                        position: { x: 40, y: 10 },
                        size: { height: 100, width: 250 },
                        src: image,
                        type: 'Image'
                    }
                ],
                fromTop: 0,
                height: 130
            }
        };
        treegrid.pdfExport(pdfExportProperties);
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}

```

```

allowPdfExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegrid = g} toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { PdfExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Inject, PdfExport, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
import { image } from './image';
function App() {
  const toolbarOptions: ToolbarItems[] = ['PdfExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid) {
      const pdfExportProperties: PdfExportProperties = {
        footer: {
          contents: [
            {
              format: 'Page { $current } of { $total }',
              pageNumberType: 'Arabic',
              position: { x: 0, y: 25 },
              style: { textBrushColor: '#ffff80', fontSize: 15
            },
            {
              type: 'PageNumber'
            }
          ],
          fromBottom: 160,
          height: 150
        },
        header: {
          contents: [
            {
              position: { x: 40, y: 10 },
              size: { height: 100, width: 250 },
              src: image,

```

```

        type: 'Image'
    },
    fromTop: 0,
    height: 130
}
}
treegrid.pdfExport(pdfExportProperties);
}
}
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowPdfExport={true}
height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
    <ColumnsDirective>
        <ColumnDirective field='taskId' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, PdfExport]} />
</TreeGridComponent>
};
export default App;

```

IMAGE.JSX

[illegible]

VPwTd40InTcTMhROk9u3X0cC/5L9vzyxLdYFkX3VMyf4p9/xzwAAKEXAAAGes+6J63Zn6JVjSb1
zxZdy7i/eb5Hfnx8WbAg3U9RLTSJLEtzk3muaG0dixyJeilhaHVpGsyDZ2QjJEhruOTwOY7ja5OJ
T3EG4fOrSXJBZRH7GI79Pskzw/g0XdV6eTd3OPou54Scj6xYVqutKnzj23Kmhcf4fvQfOrXs9tDN
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AAttKlBxbi53TUQypJbbIW3i3FzumohnOtXwy+3ybYdssKACqk0ifEGypmTjR6vTfhZmWiOWJHh
quiQlVc6uz+Fzf909KbqaIWTI7vywmxvhKnQoTWxfrRZVNxH+VWeRfR4F4sy+Gg290YVL6ikT1Vv
3T8csC42PbyLdDURwX8/nniRgD9clzXK1zVa5q5lRUzKipxKfhrs2gAAA+8hKTM/OwpOUHLfjxnb
Fje41/wCE41XiQ+LGue9rGNc971RGtamdVVFaiJxqTNh3ajaFJ/G5trXVKO35/H8E3w7BP+V8v7j
r2NZMlpt5CaGprXBPYu7mc607RZQxZS6XLqT97jI2bbsvbtLSXYqRJmJmdMRs313eRPupxJ/yqmb
APrdPBHTxpFglzU1HzaaZ8z1ket6qAAbjWCIMsLgMqPLJTXNJfIgywuAyo8slNc0k0XiGcU+Tw/Z
UpGAC5EAAAHAqo3jiR5TC66HlPVRvHEjymF10MLqModMTnnjZww3dztH6ynQw5542cMN3c7R+spX
rF7x3AlT6kNQABYiIAAAC22QtfFuLndNRDKkltshbeLcXO6aiGc61fDL7fJth2ywoAKqTQAADUL6
suXrbXTsjsJepIm67wNjZuJ3p+9+OfiiGclZiTMokrNwXwI8Ncz2PTMqL/wB4+MsaYK77YkbiLUB
G+hm4aZoMw1N1voXyt9H4ZipW70aZV3z0+h+9Nzvwrv34lj3i3XU10U+lmO9P9ftMCCR4Eznvrt
In6LPukqhB+DiJutcm62I3/M1eNP+qbbhhafx+M2tVKFnlIa55eG5P0rk/WX7qf7r6E3aHSWbUVV
T1Zrbnb792KqW+proYIM+q3t3Xb+BlsL7S+KsZXKnCzTD0zy0Jyfo2r+uv3l4vInpXckeA+uWfQR
UECQxaklriuKnzetrJKyVZP+JgAATSKAAACKMrCQn6lgvPylMkJufmXTcqrYMrAdFiKiRmqgo1q
KuZE3SVwbIZM1I1+C3mFS9LjnB3GXlodcvqiY7A7jLy0OuX1RMdg6Pg6/bTvJ9TR1dMTnB3GXlod
cvqiY7A7jLy0OuX1RMdg6Pgdt08n1HV0xOcHcZeWhly+qJjsHqpFnXi2rStNwfcjWpMw1VVPmwiI
mzTdx5h0VAW2neT6jq6YgoZjHallzWLF1TMratfIEWqRnw4sGmR3se1XLmVrkaqKnpQvmDn0dWt
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RHoiqmdFTOnkJ5BHqbTdpGsatuPTiclb7wADmG4AAAAA8NbpFPrMokrUZZseGjtk3OqorV8qKm6
h7IUNkKE2FCY1kNjUalrUzI1E8CIh/QPCRMR6vREvXWu/QelkcrUYq6E3AAHs8AAAAAAijKynp6
nYLT81Tp6bkZhs3KokaWjuhPRFjNRURzVRcyoSURBlhCbLr5ZKa5pJo0vqGcU+Ty/ZUP73X3dpdc
frWP2x3X3dpdcfrWP2zCguGQ3AgXma7r7u0uuPlrH7Y7r7u0uuPlrH7ZhQMhuAvM13X3dpdcfrWP
2z00i7btdVpJrrsuJzVmYaKi1WOqKmzTcX55rh6qN44keUwuuhhWNU1BFomJQRGS6LolsWbql5a5
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KpVLKr8Wq1SfqERlVRrHzcy+M5rfgYa5kV6qqJnVVzkep8W2yFt4txc7pqIZz7Ua1KZbkW+TbCv6
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gCbDt5XKA9pJovEM4p8niTYUpEAC5EAAAAH3p3jCW/jm6yHwPvTvGEt/GZl1kMLqModNdnvjpwYXb
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8Mvt8m2HbMplucEtP57g6mMU4Lj5bnBLT+e4OpjFODFk+H91MzbQAB0jSAAAZzDvHtEfnuS/qGHR
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IMAGE.TSX

[illegible]

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```
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KSYEVew8AA4xvAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/P/9k=";
```

Exporting tree grid in server in React Tree Grid component

The Tree Grid have an option to export the data to PDF in server side using tree grid server export library.

Server dependencies

The Server side export functionality is shipped in the Syncfusion.EJ2.TreeGridExport package, which is available in Essential Studio and [nuget.org](https://www.nuget.org/packages/Syncfusion.EJ2.TreeGridExport). The following list of dependencies is required for tree grid server side PDF exporting action.

- Syncfusion.EJ2
- Syncfusion.EJ2.TreeGridExport

Server configuration

The following code snippet shows server configuration using ASP.NET Core Controller Action.

To Export the tree grid in server side, You need to call the [serverPdfExport](#) method for passing the tree grid properties to server exporting action.

`ts

```
public IActionResult ServerSideExporting()
```

 $\{$

```
var order = TreeData.GetDefaultData();
```

```
ViewBag.dataSource = order;
```

```
return View();
```

}

```
public IActionResult PdfExport(string treeGridModel)
```

 $\{$

```
if (treeGridModel == null)
```

 $\{$

```
return View();
```

}

```
TreeGridPdfExport exp = new TreeGridpdfExport();
```

```
Syncfusion.EJ2.TreeGrid.TreeGrid gridProperty = ConvertTreeGridObject(treeGridModel);
```

```
return exp.ExportToPdf<TreeData>(gridProperty, TreeData.GetDefaultData());
```

}

```

private Syncfusion.EJ2.TreeGrid.TreeGrid ConvertTreeGridObject(string gridProperty)
{
    Syncfusion.EJ2.TreeGrid.TreeGrid TreeGridModel =
    (Syncfusion.EJ2.TreeGrid.TreeGrid)Newtonsoft.Json.JsonConvert.DeserializeObject(gridProperty,
    typeof(Syncfusion.EJ2.TreeGrid.TreeGrid));

    TreeGridColumnModel cols =
    (TreeGridColumnModel)Newtonsoft.Json.JsonConvert.DeserializeObject(gridProperty,
    typeof(TreeGridColumnModel));

    TreeGridModel.Columns = cols.columns;

    return TreeGridModel;
}

public class TreeGridColumnModel
{
    public List<TreeGridColumn> columns { get; set; }
}
`ts

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';

import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';

function App() {
    const toolbarOptions = ['PdfExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;

    const toolbarClick = (args) => {
        if (grid && args.item.id === 'Treegrid_pdfexport') {
            grid.serverExcelExport('Home/PdfExport');
        }
    };

    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings} allowExcelExport={true} height='220'
    toolbarClick={toolbarClick} ref={g => treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>

```

```

<ColumnDirective field='taskId' headerText='Task ID' width='90' textAlign='Right'/>
<ColumnDirective field='taskName' headerText='Task Name' width='180'/>
<ColumnDirective field='startDate' headerText='Start Date' width='90' format='yMd' textAlign='Right'
type='date'/>
<ColumnDirective field='duration' headerText='Duration' width='80' textAlign='Right'/>
</ColumnsDirective>
<Inject services={[Page, Toolbar, PdfExport]}/>
</TreeGridComponent>;
}
;
export default App;
`

```

Rotate a header text to a certain degree in the exported tree grid on the server side

The Tree Grid has support to customize the column header styles such as changing text orientation, the font color, and so on in the exported PDF file. To achieve this requirement, define the **BeginCellLayout** event of the **PdfExportProperties** with an event handler to perform the required action.

The **PdfHeaderCellRendering** will be triggered when creating a column header for the pdf document to be exported. Collect the column header details in this event and handle the custom in the **BeginCellLayout** event handler.

In the following demo, the **DrawString** method from the **Graphics** is used to rotate the header text of the column header inside the **BeginCellLayout** event handler.

A PDF exporting is not supported to rotate the column header on the client side.

```

`ts
public IActionResult PdfExport(string treeGridModel)
{
    if (treeGridModel == null)
    {
        return View();
    }
    TreeGridPdfExport exp = new TreeGridPdfExport();
    TreeGrid gridProperty = ConvertTreeGridObject(treeGridModel);
    gridProperty.PdfHeaderCellRendering = PdfHeaderQueryCellInfo;
    PdfGrid grid = new PdfGrid();
    Syncfusion.EJ2.TreeGridExport.PdfExportProperties pdfExportProperties = new
    Syncfusion.EJ2.TreeGridExport.PdfExportProperties();

```

```

pdfExportProperties.IsRepeatHeader = true;
exp.BeginCellLayout = new PdfGridBeginCellLayoutEventHandler(BeginCellEvent);
System.Collections.IEnumerable data = Syncfusion.EJ2.Base.Data.DataTableToJson(ViewBag.dataSource);
var result = exp.PdfExport<dynamic>(gridProperty, data, pdfExportProperties);
return View();
}

public void BeginCellEvent(object sender, PdfGridBeginCellLayoutEventArgs args)
{
    PdfGrid grid = (PdfGrid)sender;
    var brush = new PdfSolidBrush(new PdfColor(Color.DimGray));
    args.Graphics.Save();
    args.Graphics.TranslateTransform(args.Bounds.X + 50, args.Bounds.Height + 40); // give the value for
    bounds x and Y by the user
    args.Graphics.RotateTransform(-60); // give the rotate degree value by the user
    // Draw the text at particular bounds.
    args.Graphics.DrawString(headerValues[args.CellIndex], new PdfStandardFont(PdfFontFamily.Helvetica,
    10), brush, new PointF(0, 0));
    if (args.IsHeaderRow)
    {
        grid.Headers[0].Cells[args.CellIndex].Value = string.Empty;
    }
    args.Graphics.Restore();
}

private void PdfHeaderQueryCellInfo(object pdf)
{
    Syncfusion.EJ2.TreeGridExport.PdfHeaderCellEventArgs name =
    (Syncfusion.EJ2.TreeGridExport.PdfHeaderCellEventArgs)pdf;
    PdfGrid grid = new PdfGrid();
    headerValues.Add(name.Column.HeaderText);
    var longestString = headerValues.Where(s => s.Length == headerValues.Max(m => m.Length)).First();
    PdfFont font = new PdfStandardFont(PdfFontFamily.Helvetica, 6);
   .SizeF size = font.MeasureString(longestString);
    name.Headers[0].Height = size.Width * 2;
}

```

Excel Export

Excel export in React Treegrid component

The excel export allows exporting TreeGrid data to Excel document. You need to use the [excelExport](#) method for exporting. To enable Excel export in the treegrid, set the [allowExcelExport](#) as **true**.

To use excel export, You need to inject the [Link to the Video](#) module in treegrid.

To get start quickly with exporting functionalities, you can check on this video:

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['ExcelExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;
    const toolbarClick = (args) => {
        if (treegrid && args.item.text === 'Excel Export') {
            treegrid.excelExport();
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
    treegrid = g} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar, ToolbarItems, TreeGrid } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
```

```
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['ExcelExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid && args.item.text === 'Excel Export') {
      treegrid.excelExport();
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings}
  allowExcelExport={true} height='220'
    toolbarClick={toolbarClick} ref={g => treegrid = g}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]} />
  </TreeGridComponent>
};
export default App;
```

Persist collapsed state

You can persist the collapsed state in the exported document by defining `isCollapsedStatePersist` property as true in `TreeGridExcelExportProperties` parameter of [excelExport](#) method.

APP.JSX

```
{% raw %}
import * as React from 'react';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Page,
Toolbar, ExcelExport, Inject } from '@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['ExcelExport'];
  let treegridInstance;
  const toolbarClick = (args) => {
    if (args.item.text === 'Excel Export') {
      let excelExportProperties = {
        isCollapsedStatePersist: true
      };
      treegridInstance.excelExport(excelExportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={{ pageSize: 7 }}
  %}
```

```

allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegridInstance = g} toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'></ColumnDirective>
    <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Toolbar, ExcelExport]} />
</TreeGridComponent>;
}
;
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Page,
Toolbar, ExcelExport, TreeGridExcelExportProperties, Inject } from
'@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: any = ['ExcelExport'];
  let treegridInstance: TreeGridComponent;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (args.item.text === 'Excel Export') {
      let excelExportProperties: TreeGridExcelExportProperties = {
        isCollapsedStatePersist: true
      };
      treegridInstance.excelExport(excelExportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={{ pageSize: 7 }}
allowExcelExport={true} height='220'
toolbarClick={toolbarClick} ref={g => treegridInstance = g}
toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]} />

```

```

    </TreeGridComponent>
  };
  export default App;
  {% endraw %}

```

Custom data source

The excel export provides an option to define datasource dynamically before exporting. To export data dynamically, define the `dataSource` in `ExcelExportProperties`.

APP.JSX

```

{% raw %}
import * as React from 'react';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Page,
  Toolbar, ExcelExport, Inject } from '@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['ExcelExport'];
  let treegrid;
  const toolbarClick = (args) => {
    if (args.item.text === 'Excel Export') {
      let excelExportProperties = {
        isCollapsedStatePersist: true
      };
      treegrid.excelExport(excelExportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={{ pageSize: 7 }}
    allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
      treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right'></ColumnDirective>
      <ColumnDirective field='taskName' headerText='Task Name'
        width='180'></ColumnDirective>
      <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date'></ColumnDirective>
      <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]}></Inject>
  </TreeGridComponent>;
}
;
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';

```



```
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Page,
Toolbar, ExcelExport, TreeGridExcelExportProperties, Inject } from
'@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: any = ['ExcelExport'];
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (args.item.text === 'Excel Export') {
      let excelExportProperties: TreeGridExcelExportProperties = {
        isCollapsedStatePersist: true
      };
      treegrid.excelExport(excelExportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={{ pageSize: 7 }}
allowExcelExport={true} height='220'
  toolbarClick={toolbarClick} ref={g => treegrid = g}
  toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]}>/>
  </TreeGridComponent>
</App>
};
export default App;
{% endraw %}
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Excel export options in React Treegrid component

To customize excel export

The excel export provides an option to customize mapping of the treegrid to excel document.

[Export hidden columns](#)

The excel export provides an option to export hidden columns of treegrid by defining `includeHiddenColumn` as `true`.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
```

```

const toolbarOptions = ['ExcelExport'];
const pageSettings = { pageSize: 7 };
let treegrid;
const toolbarClick = (args) => {
  if (treegrid && args.item.text === 'Excel Export') {
    const excelExportProperties = {
      includeHiddenColumn: true
    };
    treegrid.excelExport(excelExportProperties);
  }
};
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
treegrid = g} toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' visible={false}
headerText='Duration' width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Toolbar, ExcelExport]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ExcelExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar, ToolbarItems, TreeGrid } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['ExcelExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid && args.item.text === 'Excel Export') {
      const excelExportProperties: ExcelExportProperties = {
        includeHiddenColumn: true
      };
      (treegrid as any).excelExport(excelExportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'

```

```

        allowPaging={true} pageSettings={pageSettings}
        allowExcelExport={true} height='220'
        toolbarClick={toolbarClick} ref={g => treegrid = g}
        toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' visible={false}
            headerText='Duration' width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>
  };
  export default App;

```

Show or hide columns on exported excel

You can show a hidden column or hide a visible column while printing the treegrid using [toolbarClick](#) and [excelExportComplete](#) events.

In the [toolbarClick](#) event, based on **args.item.text** as **Excel Export**. We can show or hide columns by setting [column.visible](#) property to **true** or **false** respectively.

In the [excelExportComplete](#) event, We have reversed the state back to the previous state.

In the below example, we have *Duration* as a hidden column in the treegrid. While exporting, we have changed *Duration* to visible column and *StartDate* as hidden column.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-
 treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['ExcelExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid && args.item.text === 'Excel Export') {
      const cols = treegrid.grid.columns;
      cols[2].visible = false;
      cols[3].visible = true;
      treegrid.excelExport();
    }
  };
  const excelExportComplete = () => {
    if (treegrid) {
      const cols = treegrid.grid.columns;
      cols[3].visible = false;
      cols[2].visible = true;
    }
  };

```

```

    }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
    treegrid = g} toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' visible={false}
        headerText='Duration' width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Column, ExcelExport, Inject, Toolbar, ToolbarItems, TreeGrid } from
'@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: ToolbarItems[] = ['ExcelExport'];
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void => {
    if (treegrid && args.item.text === 'Excel Export') {
      const cols: Column[] = treegrid.grid.columns as Column[];
      cols[2].visible = false;
      cols[3].visible = true;
      treegrid.excelExport();
    }
  }
  const excelExportComplete = (): void => {
    if (treegrid) {
      const cols: Column[] = treegrid.grid.columns as Column[];
      cols[3].visible = false;
      cols[2].visible = true;
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
  allowPaging={true} pageSettings={pageSettings} allowExcelExport={true}
  height='220'
  toolbarClick={toolbarClick} ref={g => treegrid = g}
  toolbar={toolbarOptions}>

```

```

        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' visible={false}
headerText='Duration' width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>
};
export default App;

```

File name for exported document

You can assign the file name for the exported document by defining `fileName` property in `ExcelExportProperties`.

APP.JSX

```

{% raw %}
import * as React from 'react';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Page,
Toolbar, ExcelExport, Inject } from '@syncfusion/ej2-react-treegrid';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['ExcelExport'];
    const treegrid = React.useRef(null);
    const toolbarClick = (args) => {
        if (args.item.text === 'Excel Export') {
            let excelExportProperties = {
                fileName: "new.xlsx"
            };
            treegrid.current.excelExport(excelExportProperties);
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={{ pageSize: 7 }}
allowExcelExport={true} height='220' toolbarClick={toolbarClick}
ref={treegrid} toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>;
}
;
export default App;

```

```
{% endraw %}
```

APP.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeGridComponent, ColumnsDirective, ColumnDirective, Page,
Toolbar, ExcelExport, ExcelExportProperties, Inject } from '@syncfusion/ej2-
react-treegrid';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions: any = ['ExcelExport'];
  let treegrid: TreeGridComponent | null;
  const toolbarClick = (args: ClickEventArgs): void =>{
    if (args.item.text === 'Excel Export') {
      let excelExportProperties: ExcelExportProperties = {
        fileName: "new.xlsx"
      };
      (treegrid as any).excelExport(excelExportProperties);
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={{ pageSize: 7 }}
allowExcelExport={true} height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='taskName' headerText='Task Name'
width='180'></ColumnDirective>
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]}></Inject>
  </TreeGridComponent>
};
export default App;
```

Excel cell style customization in React Treegrid component

Conditional cell formatting

TreeGrid cells in the exported Excel can be customized or formatted using [excelQueryCellInfo](#) event. In this event, we can format the treegrid cells of exported PDF document based on the column cell value.

In the below sample, we have set the background color for *Duration* column in the exported excel by **args.cell** and **backgroundColor** property.

APP.JSX

```
import { getValue } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
```

```

import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions = ['ExcelExport'];
    const pageSettings = { pageSize: 7 };
    let treegrid;
    const toolbarClick = (args) => {
        if (treegrid && args.item.text === 'Excel Export') {
            treegrid.excelExport();
        }
    };
    const excelQueryCellInfo = (args) => {
        if (args.column.field === 'duration') {
            if (getValue('data.duration', args) === 0) {
                args.style = { backgroundColor: '#336c12' };
            }
            else if (getValue('data.duration', args) < 3) {
                args.style = { backgroundColor: '#7b2b1d' };
            }
        }
    };
    const queryCellInfo = (args) => {
        if (args.column.field === 'duration') {
            if (getValue('data.duration', args) === 0) {
                args.cell.style.backgroundColor = '#336c12';
            }
            else if (getValue('data.duration', args) < 3) {
                args.cell.style.backgroundColor = '#7b2b1d';
            }
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
    treegrid = g} toolbar={toolbarOptions} queryCellInfo={queryCellInfo}
    excelQueryCellInfo={excelQueryCellInfo}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getValue } from '@syncfusion/ej2-base';
import { Column, ExcelQueryCellInfoEventArgs, QueryCellInfoEventArgs } from
 '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
 TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['ExcelExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid && args.item.text === 'Excel Export') {
            (treegrid as any).excelExport();
        }
    }
    const excelQueryCellInfo = (args: ExcelQueryCellInfoEventArgs): void =>
    {
        if (args.column.field === 'duration') {
            if (getValue('data.duration', args) === 0) {
                args.style = { backgroundColor: '#336c12' };
            }
            else if (getValue('data.duration', args) < 3) {
                args.style = { backgroundColor: '#7b2b1d' };
            }
        }
    }
    const queryCellInfo = (args: QueryCellInfoEventArgs): void => {
        if ((args.column as Column).field === 'duration') {
            if (getValue('data.duration', args) === 0) {
                (args.cell as HTMLElement).style.background= '#336c12';
            } else if (getValue('data.duration', args) < 3) {
                (args.cell as HTMLElement).style.background= '#7b2b1d';
            }
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
        allowPaging={true} pageSettings={pageSettings}
    allowExcelExport={true} height='220'
        toolbarClick={toolbarClick} ref={g => treegrid = g}
    toolbar={toolbarOptions} queryCellInfo={queryCellInfo}
    excelQueryCellInfo={excelQueryCellInfo}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
    textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
    width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
    width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
    width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />

```



```

    </TreeGridComponent>
  };
  export default App;

```

Theme

The excel export provides an option to include theme for exported excel document.

To apply theme in exported Excel, define the **theme** in **ExcelExportProperties**.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const toolbarOptions = ['ExcelExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid && args.item.text === 'Excel Export') {
      const exportProperties = {
        theme: {
          caption: { fontName: 'Segoe UI', fontColor: '#666666' },
          header: { fontName: 'Segoe UI', fontColor: '#666666' },
          record: { fontName: 'Segoe UI', fontColor: '#666666' }
        }
      };
      treegrid.excelExport(exportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
  treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]} />
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ExcelExportProperties } from '@syncfusion/ej2-grids';

```

```

import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['ExcelExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent | null;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid && args.item.text === 'Excel Export') {
            const exportProperties: ExcelExportProperties = {
                theme:
                    {
                        caption: { fontName: 'Segoe UI', fontColor:
'#666666' },
                        header: { fontName: 'Segoe UI', fontColor: '#666666' },
                        record: { fontName: 'Segoe UI', fontColor: '#666666' }
                    }
            };
            (treegrid as any).excelExport(exportProperties);
        }
    }
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    allowPaging={true} pageSettings={pageSettings}
allowExcelExport={true} height='220'
    toolbarClick={toolbarClick} ref={g => treegrid = g}
    toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, ExcelExport]} />
    </TreeGridComponent>
};
export default App;

```

By default, material theme is applied to exported excel document.

[Adding header and footer in React Treegrid component](#)

The excel export provides an option to include header and footer content for exported excel document.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-
 treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const toolbarOptions = ['ExcelExport'];
  const pageSettings = { pageSize: 7 };
  let treegrid;
  const toolbarClick = (args) => {
    if (treegrid && args.item.text === 'Excel Export') {
      const excelExportProperties = {
        footer: {
          footerRows: 4,
          rows: [
            { cells: [{ colSpan: 4, value: "Thank you for your
business!", style: { hAlign: 'Center', bold: true } }] },
            { cells: [{ colSpan: 4, value: "!Visit Again!",
style: { hAlign: 'Center', bold: true } }] }
          ]
        },
        header: {
          headerRows: 7,
          rows: [
            { cells: [{ colSpan: 4, value: "Northwind Traders",
style: { fontColor: '#C67878', fontSize: 20, hAlign: 'Center', bold: true, }
}] },
            { cells: [{ colSpan: 4, value: "2501 Aerial Center
Parkway", style: { fontColor: '#C67878', fontSize: 15, hAlign: 'Center',
bold: true, } }] },
            { cells: [{ colSpan: 4, value: "Suite 200
Morrisville, NC 27560 USA", style: { fontColor: '#C67878', fontSize: 15,
hAlign: 'Center', bold: true, } }] },
            { cells: [{ colSpan: 4, value: "Tel +1 888.936.8638
Fax +1 919.573.0306", style: { fontColor: '#C67878', fontSize: 15, hAlign:
'Center', bold: true, } }] },
            { cells: [{ colSpan: 4, hyperlink: { target:
'https://www.northwind.com/', displayText: 'www.northwind.com' }, style: {
hAlign: 'Center' } }] },
            { cells: [{ colSpan: 4, hyperlink: { target:
'mailto:support@northwind.com' }, style: { hAlign: 'Center' } }] }
          ]
        }
      };
      treegrid.excelExport(excelExportProperties);
    }
  };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  allowExcelExport={true} height='220' toolbarClick={toolbarClick} ref={g =>
  treegrid = g} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
    </ColumnsDirective>
  </TreeGridComponent>

```

```

        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date'/>
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right'/>
    </ColumnsDirective>
    <Inject services=[{Page, Toolbar, ExcelExport}]/>
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ExcelExportProperties } from '@syncfusion/ej2-grids';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, PageSettingsModel,
TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar, ToolbarItems, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const toolbarOptions: ToolbarItems[] = ['ExcelExport'];
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    let treegrid: TreeGridComponent | null;
    const toolbarClick = (args: ClickEventArgs): void => {
        if (treegrid && args.item.text === 'Excel Export') {
            const excelExportProperties: ExcelExportProperties = {
                footer: {
                    footerRows: 4,
                    rows: [
                        { cells: [{ colSpan: 4, value: "Thank you for your
business!", style: { hAlign: 'Center', bold: true } } ] },
                        { cells: [{ colSpan: 4, value: "!Visit Again!",
style: { hAlign: 'Center', bold: true } } ] }
                    ],
                },
                header: {
                    headerRows: 7,
                    rows: [
                        { cells: [{ colSpan: 4, value: "Northwind Traders",
style: { fontColor: '#C67878', fontSize: 20, hAlign: 'Center', bold: true, }
} ] },
                        { cells: [{ colSpan: 4, value: "2501 Aerial Center
Parkway", style: { fontColor: '#C67878', fontSize: 15, hAlign: 'Center',
bold: true, } } ] },
                        { cells: [{ colSpan: 4, value: "Suite 200
Morrisville, NC 27560 USA", style: { fontColor: '#C67878', fontSize: 15,
hAlign: 'Center', bold: true, } } ] },
                        { cells: [{ colSpan: 4, value: "Tel +1 888.936.8638
Fax +1 919.573.0306", style: { fontColor: '#C67878', fontSize: 15, hAlign:
'Center', bold: true, } } ] },
                        { cells: [{ colSpan: 4, hyperlink: { target:
'https://www.northwind.com/', displayText: 'www.northwind.com' }, style: {
hAlign: 'Center' } } ] },
                    ],
                },
            };
            treegrid?.excelExport?.export(excelExportProperties);
        }
    };
}

```

```

        { cells: [{ colSpan: 4, hyperlink: { target:
'mailto:support@northwind.com' }, style: { hAlign: 'Center' } }] },
        ]
    }
};
treegrid.excelExport(excelExportProperties);
}
}
return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings}
allowExcelExport={true} height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g}
toolbar={toolbarOptions}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, ExcelExport]} />
</TreeGridComponent>
};
export default App;

```

Exporting tree grid in Server in React Tree Grid Component

The Tree Grid have an option to export the data to Excel in server side using tree grid server export library.

Server dependencies

The Server side export functionality is shipped in the Syncfusion.EJ2.TreeGridExport package, which is available in Essential Studio and nuget.org. The following list of dependencies is required for tree grid server side Excel exporting action.

- Syncfusion.EJ2
- Syncfusion.EJ2.TreeGridExport

Server configuration

The following code snippet shows server configuration using ASP.NET Core Controller Action.

To Export the tree grid in server side, You need to call the [serverExcelExport](#) method for passing the tree grid properties to server exporting action.

```

`ts
public IActionResult ExcelExport(string treeGridModel)
{
    if (treeGridModel == null)

```

```

{
return View();
}

TreeGridExcelExport exp = new TreeGridExcelExport();
Syncfusion.EJ2.TreeGrid.TreeGrid gridProperty = ConvertTreeGridObject(treeGridModel);
return exp.ExportToExcel<TreeData>(gridProperty, TreeData.GetDefaultData());
}

private Syncfusion.EJ2.TreeGrid.TreeGrid ConvertTreeGridObject(string gridProperty)
{
Syncfusion.EJ2.TreeGrid.TreeGrid TreeGridModel =
(Syncfusion.EJ2.TreeGrid.TreeGrid)Newtonsoft.Json.JsonConvert.DeserializeObject(gridProperty,
typeof(Syncfusion.EJ2.TreeGrid.TreeGrid));

TreeGridColumnModel cols =
(TreeGridColumnModel)Newtonsoft.Json.JsonConvert.DeserializeObject(gridProperty,
typeof(TreeGridColumnModel));

TreeGridModel.Columns = cols.columns;
return TreeGridModel;
}

public class TreeGridColumnModel
{
public List<TreeGridColumn> columns { get; set; }
}
`ts

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';

import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';

function App() {
const toolbarOptions = ['ExcelExport'];
const pageSettings = { pageSize: 7 };
let treegrid;
const toolbarClick = (args) => {
if (grid && args.item.id === 'Treegrid_excelexport') {

```

```

grid.serverExcelExport('Home/ExcelExport');
}
};

return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowExcelExport={true} height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g} toolbar={toolbarOptions}>
<ColumnsDirective>
<ColumnDirective field='taskId' headerText='Task ID' width='90' textAlign='Right'/>
<ColumnDirective field='taskName' headerText='Task Name' width='180'/>
<ColumnDirective field='startDate' headerText='Start Date' width='90' format='yMd' textAlign='Right'
type='date'/>
<ColumnDirective field='duration' headerText='Duration' width='80' textAlign='Right'/>
</ColumnsDirective>
<Inject services={[Page, Toolbar, ExcelExport]}/>
</TreeGridComponent>;
}
;
export default App;
`

```

CSV Export in server side

You can export the tree grid to CSV format by using the [serverCsvExport](#) method which will pass the tree grid properties to server.

In the below demo, we have invoked the above method inside the [toolbarClick](#) event. In server side, we have deserialized the tree grid properties and passed to the [ExportToCsv](#) method which will export the properties to CSV format.

```

`ts
public IActionResult ServerSideExporting()
{
var order = TreeData.GetDefaultData();
ViewBag.dataSource = order;
return View();
}

public IActionResult CsvExport(string treeGridModel)
{
if (treeGridModel == null)

```

```

{
return View();
}

TreeGridExcelExport exp = new TreeGridExcelExport();
Syncfusion.EJ2.TreeGrid.TreeGrid gridProperty = ConvertTreeGridObject(treeGridModel);
return exp.ExportToCsv<TreeData>(gridProperty, TreeData.GetDefaultData());
}

private Syncfusion.EJ2.TreeGrid.TreeGrid ConvertTreeGridObject(string gridProperty)
{
Syncfusion.EJ2.TreeGrid.TreeGrid TreeGridModel =
(Syncfusion.EJ2.TreeGrid.TreeGrid)Newtonsoft.Json.JsonConvert.DeserializeObject(gridProperty,
typeof(Syncfusion.EJ2.TreeGrid.TreeGrid));

TreeGridColumnModel cols =
(TreeGridColumnModel)Newtonsoft.Json.JsonConvert.DeserializeObject(gridProperty,
typeof(TreeGridColumnModel));

TreeGridModel.Columns = cols.columns;
return TreeGridModel;
}

public class TreeGridColumnModel
{
public List<TreeGridColumn> columns { get; set; }
}
`ts

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ExcelExport, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
const toolbarOptions = ['CsvExport'];
const pageSettings = { pageSize: 7 };
let treegrid;
const toolbarClick = (args) => {
if (grid && args.item.id === 'Treegrid_csvexport') {

```



```

grid.serverCsvExport('Home/CsvExport');
}
};

return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowExcelExport={true} height='220'
toolbarClick={toolbarClick} ref={g => treegrid = g} toolbar={toolbarOptions}>
<ColumnsDirective>
<ColumnDirective field='taskId' headerText='Task ID' width='90' textAlign='Right'/>
<ColumnDirective field='taskName' headerText='Task Name' width='180'/>
<ColumnDirective field='startDate' headerText='Start Date' width='90' format='yMd' textAlign='Right'
type='date'/>
<ColumnDirective field='duration' headerText='Duration' width='80' textAlign='Right'/>
</ColumnsDirective>
<Inject services={[Page, Toolbar]}/>
</TreeGridComponent>;
}
;
export default App;
`

```

Rotate a header text to a certain degree in the exported grid on the server side

The TreeGrid has support to customize the column header styles such as changing text orientation, the font color, and so on in the exported Excel file. To achieve this requirement, use the `ExcelHeaderCellRendering` event of the tree grid.

The `ExcelHeaderCellRendering` will be triggered when creating a column header for the excel document to be exported in the server side. Customize the column header in this event.

In the following demo, using the `HeaderCellRotate` method of the `TreeGridExcelExport` class in the `ExcelHeaderCellRendering` event, you can rotate the header text of the column header in the excel exported document.

```

`ts
public IActionResult ExcelExport(string treeGridModel)
{
if (treeGridModel == null)
{
return View();
}
TreeGridExcelExport exp = new TreeGridExcelExport();

```

```

Syncfusion.EJ2.TreeGrid.TreeGrid gridProperty = ConvertTreeGridObject(treeGridModel);
gridProperty.ExcelHeaderCellRendering = ExcelHeaderQueryCellInfo;
return (ActionResult)exp.ExcelExport<TreeGridItems>(gridProperty, TreeGridItems.GetDefaultData());
}

private void ExcelHeaderQueryCellInfo(object excel)
{
    Syncfusion.EJ2.TreeGridExport.ExcelHeaderCellEventArgs name =
    (Syncfusion.EJ2.TreeGridExport.ExcelHeaderCellEventArgs)excel;
    List<string> headerValues = new List<string>();
    headerValues.Add(name.Column.HeaderText);
    var longestString = headerValues.Where(s => s.Length == headerValues.Max(m => m.Length)).First();
    TreeGridExcelExport exp = new TreeGridExcelExport();
    var size = exp.ExcelTextSize(name.Style.Font.FontName, (float)name.Style.Font.Size, longestString);
    name.Cell.RowHeight = size.Width;
    exp.HeaderCellRotate(name, 45); // Give the rotate degree value by the user.
    name.Style.Borders.LineStyle = Syncfusion.XlsIO.ExcelLineStyle.None;
}

```

Global local in React Treegrid component

Localization

The [Localization](#) library allows you to localize default text content of the TreeGrid. The treegrid component has static text on some features (like toolbar area text, filter menu text, pager information text, etc.) that can be changed to other cultures (Arabic, Deutsch, French, etc.) by defining the

[locale](#) value and translation object.

The following list of properties and its values are used in the treegrid.

Locale keywords | Text

EmptyRecord | No records to display

True | true

False | false

ExpandAll | Expand All

CollapseAll | Collapse All

RowIndent | Indent

RowOutdent | Outdent

InvalidFilterMessage | Invalid Filter Data

FilterbarTitle | \s filter bar cell

Add | Add

Edit| Edit

Cancel| Cancel

Update| Update

Delete | Delete

Print | Print

Pdfexport | PDF Export

Excelexport | Excel Export

Wordexport | Word Export

Csvexport | CSV Export

Search | Search

Save | Save

EditOperationAlert | No records selected for edit operation

DeleteOperationAlert | No records selected for delete operation

SaveButton | Save

OKButton | OK

CancelButton | Cancel

EditFormTitle | Details of

AddFormTitle | Add New Record

ConfirmDelete | Are you sure you want to Delete Record?

SearchColumns | search columns

Matches | No Matches Found

FilterButton | Filter

ClearButton | Clear

StartsWith | Starts With

EndsWith | Ends With

Contains | Contains

Equal | Equal

NotEqual | Not Equal

LessThan | Less Than

LessThanOrEqual | Less Than Or Equal

GreaterThan | Greater Than

GreaterThanOrEqualTo | Greater Than Or Equal

ChooseDate | Choose a Date

EnterValue | Enter the value

autoFitAll | Auto Fit all columns

autoFit | Auto Fit this column

Export | Export

FirstPage | First Page

LastPage | Last Page

PreviousPage | Previous Page

NextPage | Next Page

SortAscending | Sort Ascending

SortDescending | Sort Descending

EditRecord | Edit Record

DeleteRecord | Delete Record

Above | Above

Below | Below

AddRow | Add Row

FilterMenu | Filter

SelectAll | Select All

Blanks | Blanks

FilterTrue | True

FilterFalse | False

NoResult | No Matches Found

ClearFilter | Clear Filter

NumberFilter | Number Filters

TextFilter | Text Filters

DateFilter | Date Filters

MatchCase | Match Case

Between | Between

CustomFilter | Custom Filter

CustomFilterPlaceholder | Enter the value

CustomFilterDatePlaceholder | Choose a date

AND | AND

OR | OR

ShowRowsWhere | Show rows where:

currentPageInfo | {0} of {1} pages

totalItemsInfo | ({0} items)

firstPageTooltip | Go to first page

lastPageTooltip | Go to last page

nextPageTooltip | Go to next page

previousPageTooltip | Go to previous page

nextPagerTooltip | Go to next pager

previousPagerTooltip | Go to previous pager

pagerDropDown | Items per page

pagerAllDropDown | Items

All | All

Loading translations

To load translation object in an application, use [load](#) function of the [L10n](#) class.

The following example demonstrates the TreeGrid in *Deutsch* culture.

APP.JSX

```
import { L10n } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
L10n.load({
  'de-DE': {
    'pager': {
      'currentPageInfo': '{0} von {1} Seiten',
      'firstPageTooltip': 'Zur ersten Seite',
      'lastPageTooltip': 'Zur letzten Seite',
      'nextPageTooltip': 'Zur nächsten Seite',
      'nextPagerTooltip': 'Zum nächsten Pager',
      'previousPageTooltip': 'Zurück zur letzten Seit',
      'previousPagerTooltip': 'Zum vorherigen Pager',
      'totalItemsInfo': '({0} Beiträge)'
    },
    'treegrid': {
      'ClearButton': 'klar',
      'Collapse All': 'Alles einklappen',
      'Contains': 'Enthält',
      'EmptyRecord': 'Keine Aufzeichnungen angezeigt',
      'EndsWith': 'Endet mit',
      'EnterValue': 'Geben Sie den Wert ein',
      'Equal': 'Gleich',
      'Excelexport': 'Excel-Export',
      'Expand All': 'Alle erweitern',
    }
  }
});
```

```

        "FilterButton": "Filter",
        "FilterMenu": "Filter",
        "GreaterThan": "Größer als",
        "GreaterThanOrEqual": "Größer als oder gleich",
        "LessThan": "Weniger als",
        "LessThanOrEqual": "Weniger als oder gleich",
        "NotEqual": "Nicht gleich",
        "Pdfexport": "PDF-Export",
        "Print": "Drucken",
        "StartsWith": "Beginnt mit",
        "Wordexport": "Word-Export"
    }
}
});
function App() {
    const FilterOptions = {
        type: 'Menu'
    };
    const pageSettings = { pageSize: 7 };
    const toolbarOptions = ['Print'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    locale='de-DE' allowFiltering={true} filterSettings={FilterOptions}
    toolbar={toolbarOptions} height='220'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, Filter]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { L10n } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, FilterSettingsModel, Inject, PageSettingsModel, Toolbar,
 ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
L10n.load({
    'de-DE': {
        'pager': {
            'currentPageInfo': '{0} von {1} Seiten',
            'firstPageTooltip': 'Zur ersten Seite',
            'lastPageTooltip': 'Zur letzten Seite',
            'nextPageTooltip': 'Zur nächsten Seite',
            'nextPagerTooltip': 'Zum nächsten Pager',
            'previousPageTooltip': 'Zurück zur letzten Seit',

```

```

        'previousPagerTooltip': 'Zum vorherigen Pager',
        'totalItemsInfo': '({0} Beiträge)'
    },
    'treegrid': {
        'ClearButton': "klar",
        'Collapse All': 'Alles einklappen',
        'Contains': "Enthält",
        'EmptyRecord': 'Keine Aufzeichnungen angezeigt',
        'EndsWith': "Endet mit",
        'EnterValue': "Geben Sie den Wert ein",
        'Equal': "Gleich",
        'Excelexport': "Excel-Export",
        'Expand All': 'Alle erweitern',
        'FilterButton': "Filter",
        'FilterMenu': "Filter",
        'GreaterThan': "Größer als",
        'GreaterThanOrEqual': "Größer als oder gleich",
        'LessThan': "Weniger als",
        'LessThanOrEqual': "Weniger als oder gleich",
        'NotEqual': "Nicht gleich",
        'Pdfexport': "PDF-Export",
        'Print': "Drucken",
        'StartsWith': "Beginnt mit",
        'Wordexport': "Word-Export"
    }
    });
function App() {
    const FilterOptions: FilterSettingsModel = {
        type: 'Menu'
    };
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    const toolbarOptions: ToolbarItems[] = ['Print'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks'
        allowPaging={true} pageSettings={pageSettings} locale='de-DE'
    allowFiltering={true}
        filterSettings={FilterOptions} toolbar={toolbarOptions}
    height='220'>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page, Toolbar, Filter]} />
    </TreeGridComponent>
    };
    export default App;

```

Internationalization

The [Internationalization](#) library is used to globalize number, date, and time values in treegrid component using format strings in the [columns.format](#).

APP.JSX

```

import { L10n, loadCldr, setCulture, setCurrencyCode } from
 '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import * as cagregorian from './ca-gregorian.json';
import * as currencies from './currencies.json';
import { formatData } from './datasource';
import * as numberingSystems from './numberingSystems.json';
import * as numbers from './numbers.json';
import * as timeZoneNames from './timeZoneNames.json';
loadCldr(currencies, cagregorian, numbers, timeZoneNames, numberingSystems);
setCulture('de');
setCurrencyCode('EUR');
L10n.load({
  'de-DE': {
    'pager': {
      'currentPageInfo': '{0} von {1} Seiten',
      'firstPageTooltip': 'Zur ersten Seite',
      'lastPageTooltip': 'Zur letzten Seite',
      'nextPageTooltip': 'Zur nächsten Seite',
      'nextPagerTooltip': 'Zum nächsten Pager',
      'previousPageTooltip': 'Zurück zur letzten Seit',
      'previousPagerTooltip': 'Zum vorherigen Pager',
      'totalItemsInfo': '({0} Beiträge)'
    },
    'treegrid': {
      "ClearButton": "klar",
      'Collapse All': 'Alles einklappen',
      "Contains": "Enthält",
      'EmptyRecord': 'Keine Aufzeichnungen angezeigt',
      "EndsWith": "Endet mit",
      "EnterValue": "Geben Sie den Wert ein",
      "Equal": "Gleich",
      "Excelexport": "Excel-Export",
      'Expand All': 'Alle erweitern',
      "FilterButton": "Filter",
      "FilterMenu": "Filter",
      "GreaterThan": "Größer als",
      "GreaterThanOrEqual": "Größer als oder gleich",
      "LessThan": "Weniger als",
      "LessThanOrEqual": "Weniger als oder gleich",
      "NotEqual": "Nicht gleich",
      "Pdfexport": "PDF-Export",
      "Print": "Drucken",
      "StartsWith": "Beginnt mit",
      "Wordexport": "Word-Export"
    }
  }
});
function App() {
  const FilterOptions = {
    type: 'Menu'
  };
};

```



```

const pageSettings = { pageSize: 7 };
const toolbarOptions = ['Print'];
const formatOption = {
  currency: 'EUR',
  format: 'C2',
  maximumSignificantDigits: 3,
  minimumSignificantDigits: 1,
  useGrouping: false
};
return <TreeGridComponent dataSource={formatData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
locale='de-DE' allowFiltering={true} filterSettings={FilterOptions}
toolbar={toolbarOptions} height='220'>
  <ColumnsDirective>
    <ColumnDirective field='orderID' headerText='Order ID'
width='90' textAlign='Right' />
    <ColumnDirective field='orderName' headerText='Order Name'
width='180' />
    <ColumnDirective field='price' headerText='Price' width='80'
format={formatOption} textAlign='Right' type='number' />
  </ColumnsDirective>
  <Inject services={[Page, Filter, Toolbar]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { L10n, loadCldr, setCulture, setCurrencyCode } from
'@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
import { Filter, FilterSettingsModel, Inject, PageSettingsModel, Toolbar,
ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import * as cagregorian from './ca-gregorian.json';
import * as currencies from './currencies.json';
import { formatData } from './datasource';
import * as numberingSystems from './numberingSystems.json';
import * as numbers from './numbers.json';
import * as timeZoneNames from './timeZoneNames.json';
loadCldr(currencies, cagregorian, numbers, timeZoneNames, numberingSystems);
setCulture('de');
setCurrencyCode('EUR');
L10n.load({
  'de-DE': {
    'pager': {
      'currentPageInfo': '{0} von {1} Seiten',
      'firstPageTooltip': 'Zur ersten Seite',
      'lastPageTooltip': 'Zur letzten Seite',
      'nextPageTooltip': 'Zur nächsten Seite',
      'nextPagerTooltip': 'Zum nächsten Pager',
      'previousPageTooltip': 'Zurück zur letzten Seit',
      'previousPagerTooltip': 'Zum vorherigen Pager',
      'totalItemsInfo': '({0} Beiträge)'
    }
  }
});

```

```

    },
    'treegrid': {
      "ClearButton": "klar",
      'Collapse All': 'Alles einklappen',
      "Contains": "Enthält",
      'EmptyRecord': 'Keine Aufzeichnungen angezeigt',
      "EndsWith": "Endet mit",
      "EnterValue": "Geben Sie den Wert ein",
      "Equal": "Gleich",
      "Excelexport": "Excel-Export",
      'Expand All': 'Alle erweitern',
      "FilterButton": "Filter",
      "FilterMenu": "Filter",
      "GreaterThan": "Größer als",
      "GreaterThanOrEqual": "Größer als oder gleich",
      "LessThan": "Weniger als",
      "LessThanOrEqual": "Weniger als oder gleich",
      "NotEqual": "Nicht gleich",
      "Pdfexport": "PDF-Export",
      "Print": "Drucken",
      "StartsWith": "Beginnt mit",
      "Wordexport": "Word-Export"
    }
  }
});
function App() {
  const FilterOptions: FilterSettingsModel = {
    type: 'Menu'
  };
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  const toolbarOptions: ToolbarItems[] = ['Print'];
  const formatOption : object = {
    currency: 'EUR',
    format: 'C2',
    maximumSignificantDigits: 3,
    minimumSignificantDigits: 1,
    useGrouping: false
  };
  return <TreeGridComponent dataSource={formatData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  locale='de-DE' allowFiltering={true}
  filterSettings={FilterOptions} toolbar={toolbarOptions} height='220'>
    <ColumnsDirective>
      <ColumnDirective field='orderId' headerText='Order ID'
width='90' textAlign='Right' />
      <ColumnDirective field='orderName' headerText='Order Name'
width='180' />
      <ColumnDirective field='price' headerText='Price' width='80'
format={formatOption} textAlign='Right' type='number' />
    </ColumnsDirective>
    <Inject services={[Page, Filter, Toolbar]} />
  </TreeGridComponent>
};
export default App;

```

In the above sample, Price column is formatted by **NumberFormatOptions**.*

* By default, [locale](#) value is *en-US. If you want to change the en-US* culture to a different culture, you have to change the [locale](#) accordingly.

Right to left (RTL)

RTL provides an option to switch the text direction and layout of the TreeGrid component from right to left. It improves the user experiences and accessibility for users who use right-to-left languages (Arabic, Farsi, Urdu, etc.). To enable RTL Grid, set the [enableRtl](#) to **true**.

APP.JSX

```
import { L10n } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Inject, Toolbar } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
L10n.load({
  'ar-AE': {
    'pager': {
      'currentPageInfo': '{0} صفحة 1{ من}',
      'firstPageTooltip': 'انتقل إلى الصفحة الأولى',
      'lastPageTooltip': 'انتقل إلى الصفحة الأخيرة',
      'nextPageTooltip': 'انتقل إلى الصفحة التالية',
      'nextPagerTooltip': 'الذهاب إلى بيجر المقبل',
      'previousPageTooltip': 'انتقل إلى الصفحة السابقة',
      'previousPagerTooltip': 'الذهاب إلى بيجر السابقة',
      'totalItemsInfo': '({0} العناصر)'
    },
    'treegrid': {
      "ChooseDate": "اختر تاريخا",
      "ClearButton": "واضح",
      "Contains": "يحتوي على",
      "EmptyRecord": "لا سجلات لعرضها",
      "EndsWith": "ينتهي مع",
      "EnterValue": "أدخل القيمة",
      "Equal": "مساو",
      "FilterButton": "منقي",
      "FilterMenu": "منقي",
      "GreaterThan": "أكثر من",
      "GreaterThanOrEqual": "أكبر من أو يساوي",
      "LessThan": "أقل من",
      "LessThanOrEqual": "اصغر من او يساوي",
      "NotEqual": "غير متساوي",
      "Print": "طباعة",
      "StartsWith": "ابدا ب",
    }
  }
});
function App() {
  const FilterOptions = {
    type: 'Menu'
  };
  const pageSettings = { pageSize: 7 };
  const toolbarOptions = ['Print'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
```

```

locale='ar-AE' allowFiltering={true} filterSettings={FilterOptions}
toolbar={toolbarOptions} enableRtl={true} height='220'>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
    textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
    width='160' />
    <ColumnDirective field='duration' headerText='Duration'
    width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Toolbar, Filter]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { L10n } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, FilterSettingsModel, Inject, PageSettingsModel, Toolbar,
 ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
L10n.load({
  'ar-AE': {
    'pager': {
      'currentPageInfo': '{0} صفحة 1{ من}',
      'firstPageTooltip': 'انتقل إلى الصفحة الأولى',
      'lastPageTooltip': 'انتقل إلى الصفحة الأخيرة',
      'nextPageTooltip': 'انتقل إلى الصفحة التالية',
      'nextPagerTooltip': 'الذهاب إلى بيجر المقبل',
      'previousPageTooltip': 'انتقل إلى الصفحة السابقة',
      'previousPagerTooltip': 'الذهاب إلى بيجر السابقة',
      'totalItemsInfo': '({0} العناصر)'
    },
    'treegrid': {
      "ChooseDate": "اختر تاريخا",
      "ClearButton": "واضح",
      "Contains": "يحتوي على",
      "EmptyRecord": "لا سجلات لعرضها",
      "EndsWith": "ينتهي مع",
      "EnterValue": "أدخل القيمة",
      "Equal": "مساو",
      "FilterButton": "منقي",
      "FilterMenu": "منقي",
      "GreaterThan": "أكثر من",
      "GreaterThanOrEqual": "أكبر من أو يساوي",
      "LessThan": "أقل من",
      "LessThanOrEqual": "اصغر من او يساوي",
      "NotEqual": "غير متساوي",
      "Print": "طباعة",
      "StartsWith": "ابدا ب",
    }
  }
});

```

```

});
function App() {
  const FilterOptions: FilterSettingsModel = {
    type: 'Menu'
  };
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  const toolbarOptions: ToolbarItems[] = ['Print'];
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks'
  allowPaging={true} pageSettings={pageSettings} locale='ar-AE'
  allowFiltering={true}
  filterSettings={FilterOptions} toolbar={toolbarOptions} enableRtl=
  {true} height='220'>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
  textAlign='Right' />
      <ColumnDirective field='taskName' headerText='Task Name'
  width='160' />
      <ColumnDirective field='duration' headerText='Duration'
  width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Toolbar, Filter]} />
  </TreeGridComponent>
};
export default App;

```

See Also

- [Internationalization](#)
- [Localization](#)

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Accessibility in React Treegrid component

The Tree Grid component followed the accessibility guidelines and standards, including [ADA, Section 508](#), [WCAG 2.2](#) standards, and [WCAG roles](#) that are commonly used to evaluate accessibility.

The accessibility compliance for the Tree Grid component is outlined below.

| Accessibility Criteria | Compatibility |

| -- | -- |

| [WCAG 2.2](#) Support | |

| [Section 508](#) Support | |

| Screen Reader Support | |

| Right-To-Left Support | |

| Color Contrast | |

| Mobile Device Support | |

| Keyboard Navigation Support | |

| [Accessibility Checker](#) Validation | |

| [Axe-core](#) Accessibility Validation | |

<style>

.post .post-content img {

display: inline-block;

margin: 0.5em 0;

}

</style>

<div> - All features of the component meet the requirement.</div>

<div> - Some features of the component do not meet the requirement.</div>

<div> - The component does not meet the requirement.</div>

WAI-ARIA attributes

The Tree Grid component followed the [WAI-ARIA](#) patterns to meet the accessibility. The following ARIA attributes are used in the Tree Grid component:

| Attributes | Purpose |

| --- | --- |

| **role=treegrid** | Used to convey a significant and contextual message to the user. |

| **aria-selected** | Accurately reflect the selection state, whether it's single-select or multi-select. |

| **aria-expanded** | It can be used to show whether a node is expanded or collapsed, making it easier for screen reader users to navigate and understand the hierarchy. |

| **aria-sort** | Indicate the current sorting order of a table column for users with disabilities, facilitating accessible data presentation and interaction. |

| **aria-busy** | Loading state to improve accessibility for users, particularly those relying on screen readers. |

| **aria-invalid** | To indicate whether the user's input in a form field is valid or invalid, aiding users, including those with disabilities, in understanding and correcting their input. |

- | `aria-grabbed` | Provides accessibility information for users interacting with draggable elements |
- | `aria-owns` | Establishing relationships between an element and the elements it owns or controls. |
- | `aria-label` | Provides an accessible name for the close icon. |

Keyboard interaction

The Tree Grid component followed the [keyboard interaction](#) guideline, making it easy for people who use assistive technologies (AT) and those who completely rely on keyboard navigation. The following keyboard shortcuts are supported by the Tree Grid component.

Interaction Keys | Description

- PageDown** | Goes to the next page.
- PageUp** | Goes to the previous page.
- Ctrl + Alt + PageDown** | Goes to the last page.
- Ctrl + Alt + PageUp** | Goes to the first page.
- Alt + PageDown** | Goes to the next page.
- Alt + PageUp** | Goes to the previous page.
- Home** | Goes to the first cell.
- End** | Goes to the last cell.
- Ctrl + Home** | Goes to the first row.
- Ctrl + End** | Goes to the last row.
- DownArrow** | Moves the cell focus downward.
- UpArrow** | Moves the cell focus upward.
- LeftArrow** | Moves the cell focus left side.
- RightArrow** | Moves the cell focus right side.
- Shift + DownArrow** | Extends the row/cell selection downwards.
- Shift + UpArrow** | Extends the row/cell selection upwards.
- Shift + LeftArrow** | Extends the cell selection to the left side.
- Shift + RightArrow** | Extends the cell selection to the right side.
- Enter** | Moves the row/cell selection downward. If current cell is in edit state, then completes the editing. If the current cell is a header then performs sorting.
- Shift + Enter** | Moves the row/cell selection upward. If the current cell is a header then clears sorting for the selected column.
- Ctrl + Enter** | If the current cell is a header then performs multi-sorting.
- Tab** | Moves the cell selection right side.
- Shift + Tab** | Moves the cell selection left side.

Esc | Deselects all the rows/cells.

Ctrl + A | Selects all the rows/cells.

UpArrow | Moves up a row/cell selection.

DownArrow | Moves down a row/cell selection.

RightArrow | Moves to the right cell selection.

LeftArrow | Moves to the left cell selection.

Ctrl + Shift + DownArrow | Expands the selected group.

Ctrl + DownArrow | Expands all the visible groups.

Ctrl + Shift + UpArrow | Collapses the selected group.

Ctrl + UpArrow | Collapses all the visible groups.

Ctrl + P | Prints the TreeGrid.

Ensuring accessibility

The Tree Grid component's accessibility levels are ensured through an [accessibility-checker](#) and [axe-core](#) software tools during automated testing.

The accessibility compliance of the Tree Grid component is shown in the following sample. Open the [sample](#) in a new window to evaluate the accessibility of the Tree Grid component with accessibility tools.

See also

- [Accessibility in Syncfusion React components](#)

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Clipboard in React Treegrid component

The clipboard provides an option to copy selected rows or cells data into the clipboard.

The following list of keyboard shortcuts is supported in the Tree Grid to copy selected rows or cells data into the clipboard.

Interaction keys | Description

Ctrl + C | Copy selected rows or cells data into clipboard.

Ctrl + Shift + H | Copy selected rows or cells data with header into clipboard.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
  const settings = { type: 'Multiple', mode: 'Row' };
}
```



```

    const pageSettings = { pageSize: 10 };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    selectionSettings={settings}>
      <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
        textAlign='Right' isPrimaryKey={true}/>
        <ColumnDirective field='taskName' headerText='Task Name'
        width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
        width='80' textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page]} />
    </TreeGridComponent>;
  }
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel, PageSettingsModel } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const settings: SelectionSettingsModel = { type: 'Multiple', mode: 'Row'
  };
  const pageSettings: PageSettingsModel = { pageSize: 10 };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
  childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
  selectionSettings={settings}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page]} />
  </TreeGridComponent>
};
export default App;

```

Copy to clipboard by external buttons

To copy selected rows or cells data into the clipboard with help of external buttons, you need to invoke the [copy](#) method.

APP.JSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, Inject, Page, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    const settings = { type: 'Multiple', mode: 'Row' };
    const copy = () => {
        if (treegrid) {
            treegrid.copy();
        }
    };
    const copyHeader = () => {
        if (treegrid) {
            treegrid.copy(true);
        }
    };
    return (<div>
        <ButtonComponent onClick={copy}>Copy</ButtonComponent>
        <ButtonComponent onClick={copyHeader}>CopyHeader</ButtonComponent>
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' ref={g => treegrid = g} allowPaging={true}
selectionSettings={settings}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' isPrimaryKey={true}/>
                <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date'/>
                <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right'/>
            </ColumnsDirective>
            <Inject services={[Page]}/>
        </TreeGridComponent>
    </div>);
}
;
export default App;

```

APP.TSX

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
import { ColumnDirective, ColumnsDirective, TreeGrid, Inject, Page,
TreeGridComponent, SelectionSettingsModel } from '@syncfusion/ej2-react-
treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const settings: SelectionSettingsModel = { type: 'Multiple', mode: 'Row'
};
    const copy = () =>{
        if (treegrid) {

```

```

        treegrid.copy();
    }
}

const copyHeader = () => {
    if (treegrid) {
        treegrid.copy(true);
    }
}

return (<div>
    <ButtonComponent onClick= { copy }>Copy</ButtonComponent>
    <ButtonComponent onClick= { copyHeader
}>CopyHeader</ButtonComponent>
    <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
    ref={g => treegrid = g} allowPaging={true}
selectionSettings={settings}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID'
width='90' textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Page]} />
    </TreeGridComponent>
</div>)
};
export default App;

```

Copy Hierarchy Modes

Tree Grid provides support for a set of copy modes with [copyHierarchyMode](#) property.

The below are the type of copy modes available in TreeGrid.

- **Parent** : This is the default copy hierarchy mode in Tree Grid. Clipboard value have the selected records with its parent records, if the selected records not have any parent record then the selected record will be in clipboard.
- **Child** : Clipboard value will have the selected records with its child record. If the selected records do not have any child record, then the selected records will be in clipboard.
- **Both** : Clipboard value will have the selected records with its both parent and child record. If the selected records do not have any parent and child record then the selected records alone in clipboard.
- **None** : Only the Selected records will be in clipboard.

APP.JSX

```

import { DropDownListComponent } from "@syncfusion/ej2-react-dropdowns";
import { ColumnDirective, ColumnsDirective } from '@syncfusion/ej2-react-
treegrid';

```

```

import { TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    const data = ['Parent', 'Child', 'Both', 'None'];
    const settings = { type: 'Multiple', mode: 'Row' };
    const onChange = (sel) => {
        const mode = sel.value.toString();
        if (treegrid) {
            treegrid.copyHierarchyMode = mode;
        }
    };
    return (
        <DropDownListComponent popupHeight="250px" dataSource={data}
        value="Parent" change={onChange} width="150px"/>
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
        childMapping='subtasks' height='225' allowFiltering={true}
        selectionSettings={settings} ref={g => treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='75'
                textAlign='Right'/>
                <ColumnDirective field='taskName' headerText='Task Name'
                width='180'/>
                <ColumnDirective field='startDate' headerText='Start Date'
                width='90' format='yMd' textAlign='Right' type='date'/>
                <ColumnDirective field='duration' headerText='Duration'
                width='80' textAlign='Right'/>
            </ColumnsDirective>
        </TreeGridComponent>
    </div>);
}
;
export default App;

```

APP.TSX

```

import { ChangeEventArgs, DropDownListComponent } from "@syncfusion/ej2-react-dropdowns";
import { ColumnDirective, ColumnsDirective } from '@syncfusion/ej2-react-treegrid';
import { Inject, TreeGrid, TreeGridComponent, SelectionSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const data: string[] = ['Parent', 'Child', 'Both', 'None'];
    const settings: SelectionSettingsModel = { type: 'Multiple', mode: 'Row' };
};
const onChange = (sel: ChangeEventArgs): void => {
    const mode: any = sel.value.toString();
    if (treegrid) {
        treegrid.copyHierarchyMode = mode;
    }
}

```

```

    return (
      <div>
        <DropDownListComponent popupHeight="250px" dataSource={data}
        value="Parent" change={onChange} width="150px" />
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
        childMapping='subtasks' height='225' allowFiltering={true}
        selectionSettings={settings}
        ref={g => treegrid = g}>
          <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='75'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
          </ColumnsDirective>
        </TreeGridComponent>
      </div>
    );
  };
  export default App;

```

AutoFill

AutoFill Feature allows you to copy the data of selected cells and paste it to another cells by just dragging the autofill icon of the selected cells up to required cells. This feature is enabled by defining `enableAutoFill` property as true.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent, Edit,
Toolbar } from '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Batch' };
  const settings = { cellSelectionMode: 'Box', type: 'Multiple', mode:
'Cell' };
  const toolbarOptions = ['Add', 'Update', 'Cancel'];
  const pageSettings = { pageSize: 10 };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} enableAutoFill={true}
pageSettings={pageSettings} selectionSettings={settings}
editSettings={editOptions} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
      textAlign='Right' isPrimaryKey={true} />
      <ColumnDirective field='taskName' headerText='Task Name'
      width='180' />
      <ColumnDirective field='startDate' headerText='Start Date'
      width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
      width='80' textAlign='Right' />
    </ColumnsDirective>

```

```

    <Inject services={[Page, Edit, Toolbar]}/>
  </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent, Edit,
Toolbar } from '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel, PageSettingsModel, EditSettingsModel,
ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  const editOptions: EditSettingsModel = { allowEditing: true,
allowAdding: true, allowDeleting: true, mode: 'Batch' };
  const settings: SelectionSettingsModel = { cellSelectionMode: 'Box',
type: 'Multiple', mode: 'Cell' };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Update', 'Cancel'];
  const pageSettings: PageSettingsModel = { pageSize: 10 };
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} enableAutoFill={true}
pageSettings={pageSettings} selectionSettings={settings} editSettings =
{editOptions} toolbar={toolbarOptions}>
    <ColumnsDirective>
      <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
      <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
      <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
      <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Page, Edit, Toolbar]}/>
  </TreeGridComponent>
};
export default App;

```

* If `enableAutoFill` is set to true, then the autofill icon will be displayed on cell selection to copy cells.

* It requires the selection mode to be `Cell`, `cellSelectionMode` to be `Box` and also Batch Editing should be enabled.

Limitations of AutoFill

- Since the string values are not parsed to number and date type, so when the selected string type cells are dragged to number type cells then it will display as **NaN**. For date type cells, when the selected string type cells are dragged to date type cells then it will display as an **empty cell**.
- Linear series and the sequential data generations are not supported in this autofill feature.

Paste

You can able to copy the content of a cell or a group of cells by selecting the cells and pressing Ctrl + C shortcut key and paste it to another set of cells by selecting the cells and pressing Ctrl + V shortcut key.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent, Edit,
Toolbar } from '@syncfusion/ej2-react-treegrid';
import { Page } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Batch' };
    const settings = { cellSelectionMode: 'Box', type: 'Multiple', mode:
'Cell' };
    const toolbarOptions = ['Add', 'Update', 'Cancel'];
    const pageSettings = { pageSize: 10 };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
selectionSettings={settings} editSettings={editOptions}
toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
            <ColumnDirective field='taskName' headerText='Task Name'
width='180'/>
            <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date'/>
            <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right'/>
        </ColumnsDirective>
        <Inject services={[Page, Edit, Toolbar]}/>
    </TreeGridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Inject, TreeGridComponent, Edit,
Toolbar } from '@syncfusion/ej2-react-treegrid';
import { Page, SelectionSettingsModel, PageSettingsModel, EditSettingsModel,
ToolbarItems } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true,
allowAdding: true, allowDeleting: true, mode: 'Batch' };
    const settings: SelectionSettingsModel = { cellSelectionMode: 'Box',
type: 'Multiple', mode: 'Cell' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Update', 'Cancel'];
    const pageSettings: PageSettingsModel = { pageSize: 10 };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
```

```

selectionSettings={settings} editSettings = {editOptions}
toolbar={toolbarOptions}>
  <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' isPrimaryKey={true}/>
    <ColumnDirective field='taskName' headerText='Task Name '
width='180' />
    <ColumnDirective field='startDate' headerText='Start Date '
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration '
width='80' textAlign='Right' />
  </ColumnsDirective>
  <Inject services={[Page, Edit, Toolbar]}/>
</TreeGridComponent>
};
export default App;

```

To perform paste functionality, it requires the selection **mode** to be **Cell**, **cellSelectionMode** to be **Box** and also Batch Editing should be enabled.

Limitations of Paste Functionality

- Since the string values are not parsed to number and date type, so when the copied string type cells are pasted to number type cells then it will display as **NaN**. For date type cells, when the copied string format cells are pasted to date type cells then it will display as an **empty cell**.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Context menu in React Treegrid component

The TreeGrid has options to show the context menu when right clicked on it. To enable this feature, you need to define either default or custom item in the [contextMenuItems](#).

To use the context menu, inject the **ContextMenu** module in the treegrid.

The default items are in the following table.

Items | Description

AutoFit | Auto fit the current column.

AutoFitAll | Auto fit all columns.

Edit | Edit the current record.

Delete | Delete the current record.

Save | Save the edited record.

Cancel | Cancel the edited state.

PdfExport | Export the treegrid data as Pdf document.

ExcelExport | Export the treegrid data as Excel document.

CsvExport | Export the treegrid data as CSV document.

SortAscending | Sort the current column in ascending order.

SortDescending | Sort the current column in descending order.

FirstPage | Go to the first page.

PrevPage | Go to the previous page.

LastPage | Go to the last page.

NextPage | Go to the next page.

AddRow | Add new row to the treegrid.

Indent | Indents the record to one level of hierarchy.

Outdent | Outdents the record to one level of hierarchy.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Page, Resize, TreeGridComponent
} from '@syncfusion/ej2-react-treegrid';
import { ContextMenu, Edit, ExcelExport, Inject, PdfExport, Sort } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from '../datasource';
function App() {
    const editSettings = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Row'
    };
    const pageSettings = { pageSize: 7 };
    const contextMenuItems = ['AutoFit', 'AutoFitAll',
        'SortAscending', 'SortDescending', 'Edit', 'Delete', 'Save',
        'Cancel', 'PdfExport', 'ExcelExport', 'CsvExport', 'FirstPage',
        'PrevPage',
        'LastPage', 'NextPage', 'Indent', 'Outdent'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
    allowSorting={true} allowResizing={true} editSettings={editSettings}
    allowPdfExport={true} allowExcelExport={true}
    contextMenuItems={contextMenuItems}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' isPrimaryKey={true}
            headerText='Task ID' width='90' textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name '
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date '
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration'
            width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Resize, Sort, Edit, ContextMenu, Page, PdfExport,
        ExcelExport]} />
    </TreeGridComponent>;
}
```

```
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Page, Resize, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { ContextMenu, ContextMenuItem, Edit, ExcelExport, Inject, PdfExport, Sort, RowDD } from '@syncfusion/ej2-react-treegrid';
import { EditSettingsModel, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    const editSettings: EditSettingsModel = {
        allowAdding: true,
        allowDeleting: true,
        allowEditing: true,
        mode: 'Row'
    };
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    const contextMenuItems: ContextMenuItem[] = ['AutoFit', 'AutoFitAll', 'SortAscending', 'SortDescending', 'Edit', 'Delete', 'Save', 'Cancel', 'PdfExport', 'ExcelExport', 'CsvExport', 'FirstPage', 'PrevPage', 'LastPage', 'NextPage', 'Indent', 'Outdent'];
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1} childMapping='subtasks' allowPaging={true} pageSettings={pageSettings} allowSorting={true} allowResizing={true} editSettings={editSettings} allowPdfExport={true} allowExcelExport={true} contextMenuItems={contextMenuItems}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' isPrimaryKey={true} headerText='Task ID' width='90' textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name' width='180' />
            <ColumnDirective field='startDate' headerText='Start Date' width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80' textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Resize, Sort, Edit, ContextMenu, Page, PdfExport, ExcelExport]} />
    </TreeGridComponent>
};
export default App;
```

Custom context menu items

The custom context menu items can be added by defining the [contextMenuItems](#) as a collection of [contextMenuItemModel](#). Actions for this customized items can be defined in the [contextMenuClick](#) event.

In the below sample, we have shown context menu item for parent rows to expand or collapse child rows.

APP.JSX

```

import { getValue, isNullOrUndefined } from '@syncfusion/ej2-base';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { ContextMenu, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    const pageSettings = { pageSize: 7 };
    const contextMenuItems = [
        { text: 'Collapse the Row', target: '.e-content', id: 'collapserow'
    },
        { text: 'Expand the Row', target: '.e-content', id: 'expandrow' }
    ];
    const contextMenuClick = (args) => {
        if (treegrid) {
            treegrid.getColumnByField('taskID');
            if (args.item.id === 'collapserow') {
                treegrid.collapseRow(treegrid.getSelectedRows()[0],
treegrid.getSelectedRecords()[0]);
            }
            else {
                treegrid.expandRow(treegrid.getSelectedRows()[0],
treegrid.getSelectedRecords()[0]);
            }
        }
    };
    const contextMenuOpen = (args) => {
        const elem = args.event.target;
        const uid = elem.closest('.e-row').getAttribute('data-uid');
        if (treegrid) {
            if (isNullOrUndefined(getValue('hasChildRecords',
treegrid.grid.getRowObjectFromUID(uid).data))) {
                args.cancel = true;
            }
            else {
                const flag = getValue('expanded',
treegrid.grid.getRowObjectFromUID(uid).data);
                let val = flag ? 'none' : 'block';

                document.querySelector('li#expandrow')[0].setAttribute('style', 'display:
' + val + ';');
                val = !flag ? 'none' : 'block';

                document.querySelector('li#collapserow')[0].setAttribute('style',
'display: ' + val + ';');
            }
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageSettings}
allowSorting={true} allowResizing={true} contextMenuItems={contextMenuItems}
contextMenuClick={contextMenuClick} ref={g => treegrid = g}
contextMenuOpen={contextMenuOpen}>
        <ColumnsDirective>

```

```

        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[ContextMenu, Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { getValue, isNullOrUndefined } from '@syncfusion/ej2-base';
import { ContextMenuItemModel } from '@syncfusion/ej2-grids';
import { BeforeOpenCloseMenuEventArgs, MenuEventArgs } from
 '@syncfusion/ej2-navigations';
import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { ContextMenu, Inject, PageSettingsModel, TreeGrid } from
 '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid: TreeGridComponent | null;
    const pageSettings: PageSettingsModel = { pageSize: 7 };
    const contextMenuItems: ContextMenuItemModel[] = [
        {text: 'Collapse the Row', target: '.e-content', id: 'collapserow'},
        {text: 'Expand the Row', target: '.e-content', id: 'expandrow'}
    ];
    const contextMenuClick = (args: MenuEventArgs): void => {
        if (treegrid) {
            treegrid.getColumnByField('taskID');
            if (args.item.id === 'collapserow') {
                treegrid.collapseRow(treegrid.getSelectedRows()[0] as
HTMLTableRowElement,
                treegrid.getSelectedRecords()[0]);
            } else {
                treegrid.expandRow(treegrid.getSelectedRows()[0] as
HTMLTableRowElement,
                treegrid.getSelectedRecords()[0]);
            }
        }
    }
    const contextMenuOpen = (args: BeforeOpenCloseMenuEventArgs): void => {
        const elem: HTMLElement = args.event.target as HTMLElement;
        const uid: string = (elem.closest('.e-row') as
HTMLElement).getAttribute('data-uid') as string;
        if (treegrid) {
            if (isNullOrUndefined(getValue('hasChildRecords',
                treegrid.grid.getRowObjectFromUID(uid).data))) {
                args.cancel = true;
            }
        }
    }
}

```

```

        } else {
            const flag: boolean = getValue('expanded',
treegrid.grid.getRowObjectFromUID(uid).data);
            let val: string = flag ? 'none' : 'block';

document.querySelector('li#expandrow')[0].setAttribute('style', 'display:
' + val + ';');

            val = !flag ? 'none' : 'block';

document.querySelector('li#collapserow')[0].setAttribute('style',
'display: ' + val + ';');
        }
    }
}

return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks'
allowPaging={true} pageSettings={pageSettings} allowSorting={true}
allowResizing={true}
contextMenuItems={contextMenuItems} contextMenuClick={contextMenuClick}
ref={g => treegrid = g} contextMenuOpen={contextMenuOpen}>
    <ColumnsDirective>
        <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
        <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
        <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
        <ColumnDirective field='duration' headerText='Duration'
width='80' textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[ContextMenu, Page]} />
</TreeGridComponent>
};
export default App;

```

Enable and disable context menu items dynamically

You can enable and disable the context menu items using the [enableItems](#) method in [contextMenuOpen](#) event.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Page, TreeGridComponent,
ContextMenu, Edit, Inject } from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
    let treegrid;
    const pageSettings = { pageSize: 7 };
    const editSettings = {
        allowEditing: true,
        allowAdding: true,
        allowDeleting: true,
        mode: 'Row',
    };
    const contextMenuItems = [
        { text: 'Edit Record', target: '.e-content', id: 'Edit_record' },
    ];

```

```

        { text: 'Delete Record', target: '.e-content', id: 'Delete_record'
    },
    ];
    const contextMenuClick = (args) => {
        if (treegrid) {
            if (args.element.innerHTML === 'Edit Record') {
                treegrid.startEdit(args.rowInfo.row);
            }
            else if (args.element.innerHTML === 'Delete Record') {
                treegrid.deleteRecord(args.rowInfo.row);
            }
        }
    };
    const contextMenuOpen = (args) => {
        if (treegrid) {
            if (args.rowInfo.rowData.hasChildRecords === true) {
                treegrid.grid.contextMenuModule.contextMenu.enableItems(['Edit Record'],
                true);

                treegrid.grid.contextMenuModule.contextMenu.enableItems(['Delete Record'],
                false);
            }
            else {
                treegrid.grid.contextMenuModule.contextMenu.enableItems(['Edit Record'],
                false);

                treegrid.grid.contextMenuModule.contextMenu.enableItems(['Delete Record'],
                true);
            }
        }
    };
    return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' pageSettings={pageSettings}
    editSettings={editSettings} contextMenuItems={contextMenuItems}
    contextMenuClick={contextMenuClick} ref={g => treegrid = g}
    contextMenuOpen={contextMenuOpen}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='90'
            textAlign='Right' />
            <ColumnDirective field='taskName' headerText='Task Name'
            width='180' />
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right' type='date' />
            <ColumnDirective field='duration' headerText='Duration' width='80'
            textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[ContextMenu, Page, Edit]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ContextMenuItemModel } from '@syncfusion/ej2-grids';
import { ColumnDirective, ColumnsDirective, EditSettingsModel, Page,
TreeGridComponent, ContextMenu, Edit, Inject, PageSettingsModel, TreeGrid}
from '@syncfusion/ej2-react-treegrid';
import * as React from 'react';
import { sampleData } from './datasource';
function App() {
  let treegrid: TreeGridComponent | null;
  const pageSettings: PageSettingsModel = { pageSize: 7 };
  const editSettings: EditSettingsModel = {
    allowEditing: true,
    allowAdding: true,
    allowDeleting: true,
    mode: 'Row',
  };
  const contextMenuItems: ContextMenuItemModel[] = [
    { text: 'Edit Record', target: '.e-content', id: 'Edit_record' },
    { text: 'Delete Record', target: '.e-content', id: 'Delete_record' },
  ];
  const contextMenuClick = (args: any): void => {
    if (treegrid) {
      if (args.element.innerHTML === 'Edit Record') {
        treegrid.startEdit(args.rowInfo.row);
      } else if (args.element.innerHTML === 'Delete Record') {
        treegrid.deleteRecord(args.rowInfo.row);
      }
    }
  }
  const contextMenuOpen = (args: any): void => {
    if (treegrid) {
      if (args.rowInfo.rowData.hasChildRecords === true) {
        treegrid.grid.contextMenuModule.contextMenu.enableItems(['Edit
Record'], true);
        treegrid.grid.contextMenuModule.contextMenu.enableItems(['Delete
Record'], false);
      } else {
        treegrid.grid.contextMenuModule.contextMenu.enableItems(['Edit
Record'], false);
        treegrid.grid.contextMenuModule.contextMenu.enableItems(['Delete
Record'], true);
      }
    }
  }
  return <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' pageSettings={pageSettings} editSettings =
{editSettings} contextMenuItems={contextMenuItems}
contextMenuClick={contextMenuClick} ref={g => treegrid = g}
contextMenuOpen={contextMenuOpen}>
    <ColumnsDirective>
    <ColumnDirective field='taskID' headerText='Task ID' width='90'
textAlign='Right' />
    <ColumnDirective field='taskName' headerText='Task Name'
width='180' />
    <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' type='date' />
    <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />

```

```

        </ColumnsDirective>
        <Inject services={[ContextMenu, Page, Edit]}/>
    </TreeGridComponent>
};
export default App;

```

You can hide or show an item in context menu for specific area inside of treegrid by defining the [target](#) property.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Treegrid styling in React Treegrid component

To modify the TreeGrid appearance, you need to override the default CSS of treegrid. Please find the list of CSS classes and its corresponding section in treegrid. Also, you have an option to create your own custom theme for all the React controls using our [Theme Studio](#).

Section | CSS class | Purpose of CSS class

Root | e-treegrid | This class is added in this root element (div) of the treegrid control.

Header | e-gridheader | This class is added in the root element of header element. In this class, You can override thin line between header and content of the treegrid.

| e-table | This class is added at 'table' of the treegrid header. This CSS class makes table width as 100 %.

| e-columnheader | This class is added at 'tr' of the treegrid header.

| e-headercell | This class is added in 'th' element of treegrid header. You can override background color of header and border color.

| e-headercelldiv | This class is added in div which present 'th' element in the header. we recommend you to use the e-headercelldiv to override skeleton of header.

Body | e-gridcontent | This class is added at root of body content. This is to override background color of the body.

| e-table | This class is added to table of content. This CSS class makes table width as 100 %.

| e-altrow | This class is added to alternate rows of treegrid. This is to override alternate row color of the treegrid.

| e-rowcell | This class is added to all cells in the treegrid. This is to override cells appearance and styling.

| e-groupcaption | This class is added to the 'td' of group caption which is to change the background color of caption cell.

| e-selectionbackground | This class is added to rowcell's of the treegrid. This is to override selection.

| e-hover | This class is added to row of treegrid, while hovering the treegrid rows.

Pager | e-pager | This class is added to root element of the pager. This is to change appearance of the background color and color of font.

| e-pagercontainer | This class is added to numeric items of the pager.

| e-parentmsgbar | This class is added to pager info of the pager.

Summary | e-gridfooter | This class is added to root of the summary div.

| |e-summaryrow| This class is added to rows of treegrid summary.

| |e-summarycell| This class is added to cells of summary row. This to override background color of summary.

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

How To

Refresh the data source in React Treegrid component

You can add/delete the datasource records through an external button. To reflect the datasource changes in treegrid, you need to assign the modified data to dataSource property.

Please follow the below steps to refresh the treegrid after datasource change.

Step 1:

Add/delete the datasource record by using the following code.

```
`ts
const dataSource: object = extendArray(treegridObj.dataSource as object[]);
// Added New Record.
(dataSource as object[]).unshift({ TaskID: 99, TaskName: "New Data", StartDate: new
Date('02/03/2017'), Duration: 10 });
// Delete record.
(dataSource as object[]).splice(selectedRow, 1);
`
```

Step 2:

Refresh the treegrid after the datasource change by assign the modified data to dataSource property.

```
`ts
treegridObj.dataSource = dataSource; // Refresh the TreeGrid.
`
```

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, extendArray }
from '@syncfusion/ej2-react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
/* tslint:disable */
function App() {
  let treegridObj;
  const treegridData = projectData;
  const add = () => {
    const dataSource = extendArray(treegridObj.dataSource);
    dataSource.unshift({ TaskID: 99, TaskName: "New Data", StartDate:
new Date('02/03/2017'), Duration: 10 });
    treegridObj.dataSource = dataSource;
  };
}
```

```

const deleteAction = () => {
    const selectedRow = treegridObj.getSelectedRowIndex() [0];
    const dataSource = extendArray(treegridObj.dataSource);
    if (treegridObj.getSelectedRecords().length > 0) {
        dataSource.splice(selectedRow, 1); // Delete record.
    }
    else {
        alert("No records selected for delete operation");
    }
    treegridObj.dataSource = dataSource; // Refresh the TreeGrid.
};
return (<div>
    <ButtonComponent cssClass='e-flat' isToggle
onClick={add}>Add</ButtonComponent>
    <ButtonComponent cssClass='e-flat' isToggle onClick={deleteAction}
>Delete</ButtonComponent>
    <TreeGridComponent dataSource={treegridData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' height={280} ref={g =>
treegridObj = g}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right'></ColumnDirective>
            <ColumnDirective field='Duration' headerText='Duration'
width='90' textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>
</div>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, extendArray }
from '@syncfusion/ej2-react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
/* tslint:disable */
function App() {
    let treegridObj: TreeGridComponent | null;
    const treegridData: object[] = projectData;
    const add = () => {
        const dataSource: object = extendArray(treegridObj.dataSource as
object[]);
        (dataSource as object[]).unshift({ TaskID: 99, TaskName: "New Data",
StartDate: new Date('02/03/2017'), Duration: 10 });
        treegridObj.dataSource = dataSource;
    }
    const deleteAction = () => {
        const selectedRow: number = treegridObj.getSelectedRowIndex() [0];

```

```

const dataSource: object = extendArray(treegridObj.dataSource as
object[]);
if (treegridObj.getSelectedRecords().length > 0){
  (dataSource as object[]).splice(selectedRow, 1); // Delete record.
}
else {
  alert("No records selected for delete operation");
}
treegridObj.dataSource = dataSource; // Refresh the TreeGrid.
}
return (<div>
  <ButtonComponent cssClass= 'e-flat' isToggle onClick={ add
}>Add</ButtonComponent>
  <ButtonComponent cssClass= 'e-flat' isToggle onClick= { deleteAction}
>Delete</ButtonComponent>
  <TreeGridComponent dataSource={treegridData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' height={280} ref={g=>
treegridObj = g}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
      <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
      <ColumnDirective field='Duration' headerText='Duration'
width='90' textAlign='Right' />
    </ColumnsDirective>
  </TreeGridComponent>
</div>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
    ],
  },
];

```

```

        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
  ],
  {
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
      {
        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),

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        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
                3, progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
                3, progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate:
                new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
                2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
                new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
                2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
                meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
                2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
                0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,

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        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    }
},
{
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },

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        { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
    ]
    }
}
]
}
];
export let projectData = [
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Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
];

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    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
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Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
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export let adventProFont =

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/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8ACH//AAov/
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```

DATASOURCE.TSX

```

export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
  }
];

```

```

        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
                priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
                priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
                priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
                priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
                priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
                priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
                priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
                priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
                priority: 'Normal', approved: true }
        ]
    },
    {

```

```

taskID: 12,
taskName: 'Implementation Phase',
startDate: new Date('02/17/2017'),
endDate: new Date('02/27/2017'),
priority: 'Normal',
approved: false,
duration: 11,
progress: 66,
subtasks: [
  {
    taskID: 13,
    taskName: 'Phase 1',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    progress: 50,
    duration: 11,
    subtasks: [{
      taskID: 14,
      taskName: 'Implementation Module 1',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      duration: 11,
      progress: 10,
      approved: false,
      subtasks: [
        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
      ]
    }
  ]
},
{
  taskID: 21,

```



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        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
                progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
                progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
                Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration: 2,
                progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
                Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration: 2,
                progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration: 2,
                progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
                startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration: 0,
                progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),

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        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',

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    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];

```

```

export let adventProFont: string =
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BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWAAAAV4AMgD6AAACAAUGBAAAAgAEgAAARxA
AIEoAAAAAAAAAAEFEQkUAAAAg+wQDxP8YAADWgDoAAAAmwAAAAAB9QK8AAAAIAACafQAAAHKAAA
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```

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JDzot/sACvP7hAR/+4Sz+jwFxAEEAGv/0AaACvAAXAAATIRUjBzMyFhQGIIyImJzcWFjMyNjQmIyN
fAQniGV5ZfHxZN14dJRZLK0dhYEiParwt8nyxfDMsGCIoY4pjAAACABr/9AHDARwAGAAiAAABMxU
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uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Enable/disable treegrid and its actions in React Treegrid component

You can enable/disable the TreeGrid and its actions by applying/removing corresponding CSS styles.

To enable/disable the treegrid and its actions, follow the given steps:

Step 1:

Create CSS class with custom style to override the default style of TreeGrid.

```
`css
.disabletreegrid {
  pointer-events: none;
  opacity: 0.4;
}
.wrapper {
  cursor: not-allowed;
}
`
```

Step 2:

Add/Remove the CSS class to the TreeGrid in the click event handler of Button.

```
`ts
const btnClick = (): void => {
  if (treegrid && treegrid.element.classList.contains('disabletreegrid')) {
    treegrid.element.classList.remove('disabletreegrid');
    (document.getElementById("TreeGridParent") as HTMLElement).classList.remove('wrapper');
  }
  else if (treegrid) {
    treegrid.element.classList.add('disabletreegrid');
    (document.getElementById("TreeGridParent") as HTMLElement).classList.add('wrapper');
  }
}
`
```

In the below demo, the button click will enable/disable the TreeGrid and its actions.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Page, Edit, Toolbar } from '@syncfusion/ej2-react-
 treegrid';
```

```

import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
/* tslint:disable */
function App() {
    const editOptions = { allowAdding: true, allowEditing: true,
allowDeleting: true };
    const toolbarOptions = ['Add', 'Delete', 'Update', 'Cancel'];
    let treegrid;
    const btnClick = () => {
        if (treegrid &&
treegrid.element.classList.contains('disabletreegrid')) {
            treegrid.element.classList.remove('disabletreegrid');

document.getElementById("TreeGridParent").classList.remove('wrapper');
        }
        else if (treegrid) {
            treegrid.element.classList.add('disabletreegrid');
            document.getElementById("TreeGridParent").classList.add('wrapper');
        }
    };
    return (<div>
        <ButtonComponent cssClass='e-flat e-primary' iconCss='e-icons e-play-
icon' isToggle onClick={btnClick}>Enable/Disable TreeGrid</ButtonComponent>
        <div id="TreeGridParent">
            <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' height={210}
toolbar={toolbarOptions} ref={g => treegrid = g} editSettings={editOptions}>
                <ColumnsDirective>
                    <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                    <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                    <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right'>
                    <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'>
                </ColumnsDirective>
                <Inject services={[Page, Edit, Toolbar]}>
            </TreeGridComponent>
        </div>
    </div>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from '../datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent,
EditSettingsModel } from '@syncfusion/ej2-react-treegrid';
import { Inject, Page, Edit, Toolbar, ToolbarItems } from '@syncfusion/ej2-
react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
/* tslint:disable */
function App() {

```

```

const editOptions: EditSettingsModel = { allowAdding:true, allowEditing:
true, allowDeleting:true };
const toolbarOptions: ToolbarItems[] = ['Add', 'Delete', 'Update',
'Cancel'];
let treegrid: TreeGridComponent | null;
const btnClick = (): void => {
    if (treegrid && treegrid.element.classList.contains('disabletreegrid'))
    {
        treegrid.element.classList.remove('disabletreegrid');
        (document.getElementById("TreeGridParent") as
HTMLElement).classList.remove('wrapper');
    }
    else if (treegrid) {
        treegrid.element.classList.add('disabletreegrid');
        (document.getElementById("TreeGridParent") as
HTMLElement).classList.add('wrapper');
    }
}
return (<div>
    <ButtonComponent cssClass='e-flat e-primary' iconCss='e-icons e-play-
icon'
        isToggle onClick={ btnClick }>Enable/Disable
TreeGrid</ButtonComponent>
    <div id="TreeGridParent">
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' height={210}
toolbar={toolbarOptions}
            ref={g => treegrid = g} editSettings={editOptions}>
                <ColumnsDirective>
                    <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                    <ColumnDirective field='TaskName' headerText='Task Name '
width='100'></ColumnDirective>
                    <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
                    <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
                </ColumnsDirective>
                <Inject services={[Page, Edit, Toolbar]} />
            </TreeGridComponent>
        </div>
    </div>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
    }
]

```

```

        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),

```

```

        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
                    ]
                }]
            },
            {
                taskID: 21,
                taskName: 'Phase 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/28/2017'),

```

```

        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
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                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,

```

```

        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
            3, progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
            3, progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate:
            new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
            2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate:
            new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
            2, progress: '0', priority: 'High', approved: false },
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            2, progress: '0', priority: 'Normal', approved: true },
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        ]
    }
}

];
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    Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
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    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
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```



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    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
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    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
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    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
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},
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},
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
        priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
```



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        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
                duration: 11,
                progress: 10,
                approved: false,
                subtasks: [
                    { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                    { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                    { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                    { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },

```

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        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
      ]
    },
    {
      taskID: 21,
      taskName: 'Phase 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'High',
      approved: false,
      duration: 12,
      progress: 60,
      subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
          { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
          { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
          { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
          { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
          { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
          { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
        ]
      }
    ]
  },
}

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        {
            taskID: 29,
            taskName: 'Phase 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            approved: false,
            duration: 11,
            progress: 30,
            subtasks: [{
                taskID: 30,
                taskName: 'Implementation Module 3',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                duration: 11,
                progress: 60,
                subtasks: [
                    { taskID: 31, taskName: 'Development Task 1',
                        startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration: 3,
                        progress: '50', priority: 'Low', approved: true },
                    { taskID: 32, taskName: 'Development Task 2',
                        startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration: 3,
                        progress: '50', priority: 'Normal', approved: false },
                    { taskID: 33, taskName: 'Testing', startDate: new
                        Date('02/20/2017'),
                        endDate: new Date('02/21/2017'), duration: 2,
                        progress: '0', priority: 'Critical', approved: true },
                    { taskID: 34, taskName: 'Bug fix', startDate: new
                        Date('02/24/2017'),
                        endDate: new Date('02/25/2017'), duration: 2,
                        progress: '0', priority: 'High', approved: false },
                    { taskID: 35, taskName: 'Customer review meeting',
                        startDate: new Date('02/26/2017'),
                        endDate: new Date('02/27/2017'), duration: 2,
                        progress: '0', priority: 'Normal', approved: true },
                    { taskID: 36, taskName: 'Phase 3 complete',
                        startDate: new Date('02/27/2017'),
                        endDate: new Date('02/27/2017'), duration: 0,
                        progress: '50', priority: 'Critical', approved: false },
                ]
            }
        ]
    }
];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
        Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
        'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
        Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
        'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },

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    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
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/8ABa/+gAl//wAJj/8ACZ//AAmv/wAJv/8ACc//AAnf/wAAMAUF/9AFz/2QC1/9kACQBS/+0AWP/
OAFn/wwBc/8AAR//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ/+YAWv/iAFv
/5wBc//IAtf/yAAQAD/+9ABH/rABc/9YAtf/WADQAD/9rABD/tgAR/14AHf+3AB7/nQBE/5sArv/
LAef/1ABI/9EASv/PAEz/5QBO/9kAT//bAFD/2wBR/9sAUv/CAFP/2QBU/80AVf/fAFb/ywBX/+8
AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QC
j//UApP/lAKX/5QCM/+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAr//5ALD/+QCx//kAsv/5ALX
/6QDj//UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf+kAET/xwBF//oASP/cAJf/xwC
Y/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEgAP/5oAEf+oAET/zABH//0
ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AA
GAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAmv/jAJv
/4wCc/+MANf/jAAEA//wAAEBFAAcADMABf9DAAR/OAAL//YAJv/GACr/xgAy/9oANP/XADf/rAA
4/74AOf+YADr/qAA8/5UARP/mAEB/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn
/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YANP/mAJ3/5gCe/+YAN//wAKD/8ACH//AAov/
wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58
AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAQCCT//cACQBF/9sASQAGAEr/+QBT/+QAV//

```
0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AA1//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEb//QCe//0AAQCK/+0ACAAP/9c
AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAhr/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Change header text dynamically in React Treegrid component

You can change the column [headerText](#) dynamically through an external button.

Follow the given steps to change the header text dynamically:

Step 1:

Get the column object corresponding to the field name by using the [getColumnByField](#) method.

Then change the header Text value.

```
`ts
/ get the JSON object of the column corresponding to the field name */
const column = treegrid.getColumnByField("Duration");
/ assign a new header text to the column */
column.headerText = "Changed Text";
`
```

Step 2:

To reflect the changes in the grid header, invoke the [refreshColumns](#) method.

```
`ts
treegrid.refreshColumns();
`
```

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { Inject, Page, Edit, Toolbar } from '@syncfusion/ej2-react-
treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
/* tslint:disable */
function App() {
    const editOptions = { allowAdding: true, allowEditing: true,
allowDeleting: true };
    const toolbarOptions = ['Add', 'Edit', 'Delete', 'Update', 'Cancel'];
    let treegrid;
    const click = () => {
```

```

        if (treegrid) {
            /** get the JSON object of the column corresponding to the field
name */
            const column = treegrid.getColumnByField("Duration");
            /** assign a new header text to the column */
            column.headerText = "Changed Text";
            treegrid.refreshColumns();
        }
    };
    return (<div>
        <ButtonComponent cssClass='e-flat' isToggle onClick={click}>Change
Header Text</ButtonComponent>
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' height={210}
toolbar={toolbarOptions} ref={treegrid} editSettings={editOptions}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
            </ColumnsDirective>
            <Inject services={[Page, Edit, Toolbar]}></Inject>
        </TreeGridComponent>
    </div>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent,
EditSettingsModel } from '@syncfusion/ej2-react-treegrid';
import { Inject, Page, Edit, Toolbar, ToolbarItems } from '@syncfusion/ej2-
react-treegrid';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
/* tslint:disable */
function App() {
    const editOptions: EditSettingsModel = { allowAdding:true, allowEditing:
true, allowDeleting:true };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete', 'Update',
'Cancel'];
    let treegrid: TreeGridComponent | null;
    const click = () => {
        if (treegrid) {
            /** get the JSON object of the column corresponding to the field name
*/
            const column = treegrid.getColumnByField("Duration");
            /** assign a new header text to the column */
            column.headerText = "Changed Text";
            treegrid.refreshColumns();
        }
    };
}

```

```

    }
  }
  return (<div>
    <ButtonComponent cssClass= 'e-flat' isToggle onClick= { click }>Change
Header Text</ButtonComponent>
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' height={210}
toolbar={toolbarOptions}
    ref={treegrid} editSettings={editOptions}>
      <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
      </ColumnsDirective>
      <Inject services={[Page, Edit, Toolbar]} />
    </TreeGridComponent>
  </div>
  );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  }
]

```

```

    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),

```

```

        priority: 'Normal',
        duration: 11,
        progress: 10,
        approved: false,
        subtasks: [
            { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
            { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
            { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
        ]
    }
},
{
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),

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```

        endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
    ]
  }
},
{
  taskID: 29,
  taskName: 'Phase 3',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,
  duration: 11,
  progress: 30,
  subtasks: [{
    taskID: 30,
    taskName: 'Implementation Module 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    duration: 11,
    progress: 60,
    subtasks: [
      { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
      { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
      { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
      { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
    ]
  }
]
}
]
}

```



```

        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
      ]
    }
  ]
}

];
export let projectData = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
  { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
];

```

```

    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAp4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmAAC2mAAAACRPuY8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAQAACnXAAAAhnbHlmlUxHIQAADyQAAIfEaGvHzPYoXpQAAAEcAAA
ANmhoZWEK6QfqAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAADOm1heHAB5QB
RAAABeAAAACBuYW11vYEFiWAAAlugAAABGcG9zdL7lSo8AAAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAC
AAQAAAAAIag2XnRcRfDzz1AAsD6AAAAADK+KMLAAAAAMttdz//xP8lB14DvQAAAAgAAgAAAAAAAA
BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWAAAAV4AMgD6AAACAAUGBAAAAgAEgAAARxA
AIEoAAAAAAAAAAEFEQkUAAAAg+wQDxP8YAADWgDoAAAAmwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
BTQAAARYAADWAE4BqgBzAmUAIgIcACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAIaKUAEQG
aAC0AewARAAyAGgILAD8A0gAaAZMAGgG6ABoB6gAaAboAGgHdABoBvgAaAdoAGgHdABoAawAaAJQ
AGgFpABoBdAAaAwkAGgGXABoCwAaAg8ADAIiAE4BsgBCAkAATgHRAE4BvwBOAhkAQQJMAE4AxAA
dALL//gHcAE8BuABOArYATgKKAIE4CJQA/AiMATgILAD8CNABOAJEAJQGSAAACNgBKAK8ATgMpAE4
CSwAtAiWAPAIImAB8BPwBOAEATgE/AE4BkwBOAgIATADeAC4BygAlAEIATgF/ACQB2wBHAbIAIwE
oAE4BwAALAE0AQADVAE4Awv/6AbMAQwDLAE4C4QBOAfQAQAHAC8B6gBOAcAAJQFNAD0BrwAkAPM
ALAG/ACQBqgASAr4AEgHhADoB3gAlAEATgE0AE4AywBOATQATgICAE4AlgBOAbMATgHZAE4B0AB
OAjAANQJMAE4A3gAEAYAGQF+AE4B8gAqAZoALQMgABkBTgBOAZEATgG1AE4A3gAuAd0AJQKfAE4
BmgBMAgIABAHUAE8CDwAMAg8ADAIpAAwCDwAMAg8ADAIpAAwDLgBOAbIAQgHRAE4B0QBOAdEATgH
RAE4BGABTAVgATgHAAE4BFABOAOAATgKKAIE4CJQA/AiUAPwILAD8CJQA/AiUAPwGGAE4CFQBOAJY
ASgI2AEoCNgBKAJYASgIsADwB6gBOAgAATgHyAE4B8gBOAfIATgHyAE4B8gBOAfIATgMuAE4BfwA
kAdkATgHZAE4B4gBOAcIAIwDnAE4A4wBRAJ//xACO/98B4gBOAEYATgHmAE4B5gBOAEYATgHmAE4
BsABOAE8ATgHmAE4B5gBOAEYATgHmAE4CCABOAEoATgIIAE4CDwAMAFIATgIPAAwB8gBOApYATgH
2ACUBsgBCAbMATgGyAEIB0wBOAbIAQgGzAE4BsgBCAbQATgJAAE4CYABOAKAATgIfAE4B0QBOAcI
AIwHRAE4B2QBOAfsATgGyACMB0QBOAdkATgIZAEEB6wBOAhkAQQHqAE4CNgBKAEoATgIZAEEB6gB
OAKwATgJDAB8CrQBOAiAATgHoAE4BuWBOAXYATgFKAE4BWWBOAQn/+gEYAE4AgQApAQT//gGTAE4
B3ABPAb4AQwHiAE4BuABOARIAUQG4AE4A/wBOAb//3gDN/9oCVQBOAAyATgKKAIE4B4gBOAOoATgH
0AEACigBOAEIATgKLAE4B9QBAAiUAPwHmAE4CJQA/AeYATgM2AE4DFwBOAJQATgFrAE4CNABOAVs
APQI0AE4BkwBOAJEAJQG8ADECMQALAdkATgGvACQCMQALAdkATgGSAAABCwAsAZIAAAFu/+sBkgA
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/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
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uAXX/oQABAAAACgAiACIAAKRGTFQADmxhdG4ADgAE';

```

DATASOURCE.TSX

```

export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [

```



```

        { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,

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duration: 11,
progress: 66,
subtasks: [
  {
    taskID: 13,
    taskName: 'Phase 1',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    progress: 50,
    duration: 11,
    subtasks: [{
      taskID: 14,
      taskName: 'Implementation Module 1',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      duration: 11,
      progress: 10,
      approved: false,
      subtasks: [
        { taskID: 15, taskName: 'Development Task 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
          progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
          progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
          Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration: 2,
          progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
          Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration: 2,
          progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
          startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration: 2,
          progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
          startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration: 0,
          progress: '50', priority: 'Low', approved: true }
      ]
    }
  ]
},
{
  taskID: 21,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/28/2017'),
  priority: 'High',
  approved: false,
  duration: 12,

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        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
            ]
        }]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [

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        { taskID: 31, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
  progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
  progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
  Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
  progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
  Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
  progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
  startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
  progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
  startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
  progress: '50', priority: 'Critical', approved: false },
      ]
    }
  }
]
];
export let projectData: object[] = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
  Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
  Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
  Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
  Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
  Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
  Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
  Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
  Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
  Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',

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      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
      { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40' },
      { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
    ];
export let adventProFont: string =
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```

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y8i2oLcjIyMgtqC0tqKgAAAMAIv+Oaf0DMQAIACgALgAAEzMVfChJicRFhCwFhUUBgcVizUmJic
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```

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uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Customize column styles in React Treegrid component

You can customise the appearance of header and content of the particular column using the [customAttributes](#) property.

To customize the treegrid column, follow the given steps:

Step 1:

Create a css class with custom style to override the default style for rowcell and headercell.

```
`css
.e-treegrid .e-rowcell.customcss{
background-color: #ecedee;
font-family: 'Bell MT';
color: 'red';
font-size: '20px';
}
.e-treegrid .e-headercell.customcss{
background-color: #2382c3;
color: white;
font-family: 'Bell MT';
font-size: '20px';
}
`
```

Step 2:

Add the custom css class to particular column by using [customAttributes](#) property.

```
`ts
<ColumnDirective field='TaskName' headerText='Task Name' width='100'
customAttributes={customAttributes}></ColumnDirective>
`
```

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const customAttributes = { class: 'customcss' };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' height={320}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100' customAttributes={customAttributes}></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right'>
            <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'>
        </ColumnsDirective>
    </TreeGridComponent>);
}
```

```

    </TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const customAttributes: any = {class: 'customcss'};
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' height={320}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100' customAttributes={customAttributes}></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
            </ColumnsDirective>
        </TreeGridComponent>
    );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),

```

```

        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,

```

```

        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
            ]
        }]
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,

```

```

        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),

```



```

        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
    ]
}
}
]
}
];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',

```

```

      'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    }
  ];
export let adventProFont =

```

```

'AAEAAAAARAQAABAAQRFNJRwAAAAEEAALa8AAAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAA08EdTVUK49LjmAAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAQAACnXAAAAhnbHlmlUxXHIQAADyQAAIfEaGvHzPYoXpQAAAEcAAA
ANmhoZWEEK6QfqAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAADOMlHeHAB5QB
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AAQAAAAIAg2XnRcRfDzzlAAsD6AAAAADK+KMLAAAAAMttDz//xP8lB14DvQAAAAGaAgAAAAA
BAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAIBggEsAAUAAAKKAlgaABLAooCWAAAAV4AMgD6AAACAAUGBAAAAGAEgAAArxA
AIEoAAAAAAAAAAAAEFQkUAAAAG+wQDxP8YAAADWgDoAAAAmWAAAAAB9QK8AAAAIAACAFQAAAHKAAA
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
```



```

        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',

```

```

        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
                    ]
                }]
            },
            {
                taskID: 21,
                taskName: 'Phase 2',
                startDate: new Date('02/17/2017'),

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        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',

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        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },

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    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
  ];

```

```

export let adventProFont: string =
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AIEoAAAAAAAAAAEFQkUAAAAg+wQDxP8YAADWgDoAAAAmwAAAAAB9QK8AAAAIAACafQAAAHKAAA
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```
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AAQCC//0AAQCFABCAAQCGAA8AAQCNAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
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uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Custom tool tip for columns in React Treegrid component

You can achieve the custom tooltip([EJ2 Tooltip](#)) for TreeGrid by using the [queryCellInfo](#) event.

Render the Tooltip component for the treegrid cells by using the following code in the [queryCellInfo](#) event.

```
`ts
const tooltip = (args: QueryCellInfoEventArgs) => {
const tooltip: Tooltip = new Tooltip({
content: getValue((args.column as Column).field, args.data as object).toString()
});
tooltip.appendTo(args.cell as HTMLElement);
}
`
```

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { Tooltip } from '@syncfusion/ej2-popups';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const tooltip = (args) => {
        const tooltip = new Tooltip({
            content: getValue(args.column.field, args.data).toString()
        });
        tooltip.appendTo(args.cell);
    };
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
        idMapping='TaskID' parentIdMapping='parentID' queryCellInfo={tooltip}
        height={320}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
                textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
                width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
                width='90' format='yMd' textAlign='Right'>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
                textAlign='Right'>
            </ColumnsDirective>
        </TreeGridComponent>);
}
;
export default App;
```

APP.TSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { Tooltip } from '@syncfusion/ej2-popups';
```

```

import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
 '@syncfusion/ej2-react-treegrid';
import { QueryCellInfoEventArgs, Column } from '@syncfusion/ej2-react-
 grids';
/* tslint:disable */
function App() {
  const tooltip = (args: QueryCellInfoEventArgs) => {
    const tooltip: Tooltip = new Tooltip({
      content: getValue((args.column as Column).field, args.data as
 object).toString()
    });
    tooltip.appendTo(args.cell as HTMLElement);
  }
  return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
 idMapping= 'TaskID' parentIdMapping='parentID' queryCellInfo={tooltip}
 height={320}>
      <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
 textAlign='Right'></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
 width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
 width='90' format='yMd' textAlign='Right' />
        <ColumnDirective field='Duration' headerText='Duration' width='90'
 textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>
  );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),

```

```

        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,

```

```

        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
                3, progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
                3, progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate:
                new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
                2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
                new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
                2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
                meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
                2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
                0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,

```



```

        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),

```



```

        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
    ]
}
}
]
}
];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
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DATASOURCE.TSX

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export let sampleData: Object[] = [
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    taskName: 'Planning',
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    progress: 100,
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priority: 'Normal', approved: false },
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priority: 'Low', approved: true },
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priority: 'Critical', approved: false },
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priority: 'Low', approved: true }
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    },
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        taskName: 'Design',
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        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
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priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
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priority: 'Critical', approved: false },
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priority: 'High', approved: true },
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            { taskID: 16, taskName: 'Development Task 2',
              startDate: new Date('02/17/2017'),
              endDate: new Date('02/19/2017'), duration: 3,
              progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate: new
              Date('02/20/2017'),
              endDate: new Date('02/21/2017'), duration: 2,
              progress: '0', priority: 'Normal', approved: true },
            { taskID: 18, taskName: 'Bug fix', startDate: new
              Date('02/24/2017'),
              endDate: new Date('02/25/2017'), duration: 2,
              progress: '0', priority: 'Critical', approved: false },
            { taskID: 19, taskName: 'Customer review meeting',
              startDate: new Date('02/26/2017'),
              endDate: new Date('02/27/2017'), duration: 2,
              progress: '0', priority: 'High', approved: false },
            { taskID: 20, taskName: 'Phase 1 complete',
              startDate: new Date('02/27/2017'),
              endDate: new Date('02/27/2017'), duration: 0,
              progress: '50', priority: 'Low', approved: true }
          ]
        }
      ]
    },
    {
      taskID: 21,
      taskName: 'Phase 2',
      startDate: new Date('02/17/2017'),

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        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',

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        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData: object[] = [
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Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },

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    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];

```

```

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AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Change orientation of header text in React Treegrid component

You can change the orientation of the header text by using the [customAttributes](#) property.

Ensure the following steps:

Step 1:

Create a css class with orientation style for treegrid header cell.

```
`css
.orientationcss .e-headercelldiv {
transform: rotate(90deg);
}
`
```

Step 2:

Add the custom css class to particular column by using [customAttributes](#) property.

```
`ts
<ColumnDirective field='EndDate' headerText='End Date' width='90' format='yMd'
customAttributes={this.customAttributes} textAlign='Center' />
`
```

Step 3:

Resize the header cell height in [create](#) event by using the following code.

```
`ts
const setHeaderHeight = () => {
/ Obtain the width of the headerText content */
const textWidth: number = (document.querySelector(".orientationcss > div") as
HTMLElement).scrollWidth;
const headerCell: NodeList = document.querySelectorAll(".e-headercell");
for(let i: number = 0; i < headerCell.length; i++) {
/ Assign the obtained textWidth as the height of the headerCell */
((headerCell as any).item(i)).style.height = textWidth + 'px';
}
}
`
```

APP.JSX

```
import * as React from 'react';
import { projectData } from '../datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
  const customAttributes = { class: 'orientationcss' };
  const setHeaderHeight = () => {
```

```

    /** Obtain the width of the headerText content */
    const textWidth = document.querySelector(".orientationcss >
div").scrollWidth;
    const headerCell = document.querySelectorAll(".e-headercell");
    for (let i = 0; i < headerCell.length; i++) {
        /** Assign the obtained textWidth as the height of the
headerCell */
        (headerCell.item(i)).style.height = textWidth + 'px';
    }
};
return (<div>
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' created={setHeaderHeight}
height={230}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right'>
            <ColumnDirective field='EndDate' headerText='End Date'
width='90' format='yMd' customAttributes={customAttributes}
textAlign='Center'>
            <ColumnDirective field='Duration' headerText='Duration'
width='90' textAlign='Right'>
            <ColumnDirective field='Progress' headerText='Progress'
width='90' textAlign='Right'>
        </ColumnsDirective>
    </TreeGridComponent>
</div>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from
'@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const customAttributes: any = { class: 'orientationcss' };
    const setHeaderHeight = () => {
        /** Obtain the width of the headerText content */
        const textWidth: number = (document.querySelector(".orientationcss >
div") as HTMLElement).scrollWidth;
        const headerCell: NodeList = document.querySelectorAll(".e-headercell");
        for(let i: number = 0; i < headerCell.length; i++) {
            /** Assign the obtained textWidth as the height of the headerCell */
            ((headerCell as any).item(i)).style.height = textWidth + 'px';
        }
    }
    return (<div>

```

```

    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping= 'TaskID' parentIdMapping='parentID' created={setHeaderHeight}
    height={230}>
      <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
        textAlign='Right'></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
        width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
        width='90' format='yMd' textAlign='Right' />
        <ColumnDirective field='EndDate' headerText='End Date'
        width='90' format='yMd' customAttributes={customAttributes}
        textAlign='Center' />
        <ColumnDirective field='Duration' headerText='Duration'
        width='90' textAlign='Right' />
        <ColumnDirective field='Progress' headerText='Progress'
        width='90' textAlign='Right' />
      </ColumnsDirective>
    </TreeGridComponent>
  </div>
);
};
export default App;

```

CUSTOM.CSS

```

.orientationcss .e-headercelldiv {
  transform: rotate(90deg);
}

```

CUSTOM.JSX

```

orientationcss.e - headercelldiv;
{
  transform: rotate(90, deg);
}

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
    ]
  }
]

```

```

        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {

```

```

        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
                    3, progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
                    3, progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate:
                    new Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration:
                    2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
                    new Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration:
                    2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
                    meeting', startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration:
                    2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                    startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration:
                    0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',

```



```

        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },

```

```

        { taskID: 32, taskName: 'Development Task 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
        3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate:
        new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
        2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
        new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
        2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
        meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
        2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
        0, progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
];

```

```

    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjAAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAAQAAcNXXXXAAhnbHlmlUxHIQAADyQAAIfEaGVhZPyoXpQAAAEcAAA
ANmhoZWEK6QfQAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAADOm1heHAB5QB
RAAABeAAAACBuYw1lvYefIwAAlugAAAbGcG9zdL7lSo8AAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAc
AAQAAAAIAg2XnRcRfDzz1AAsD6AAAAADK+KMLAAAAAMttDz//xP81B14DvQAAAAgAAgAAAAAAAA
BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWAAAAV4AMgD6AAACAAUGBAAAAGAEgAAARxA
AIEoAAAAAAAAAAEFEQkUAAAAG+wQDxP8YAAADWgDoAAAMwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
BTQAAARYAAADWAE4BqgBzAmUAIgIcACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAiAKUAEQG
aAC0AewARAaYAGgILAD8A0gAaAZMAGgG6ABoB6gAaAboAGgHdABoBvgAaAdoAGgHdABoAawAaAJQ
AGgFpABoBdAAAaWkAGgGXABoCwAaAg8ADAIiAE4BsgBCAkAATgHRAE4BvwBOAhkAQQJMAE4AxAA
dALL//gHcAE8BuABOArYATgKKAE4CJQA/AiMATgILAD8CNABOAJEAJQGSAAACNgBKAK8ATgMpAE4
CSwAtAiWAPAIImAB8BPwBOAeMATgE/AE4BkwBOAgIATADeAC4BygAlAeIATgF/ACQB2wBHAbIAIwE
oAE4BwAALAE0AQADVAE4Awv/6AbMAQwDLAE4C4QBOAfQAQAHAC8B6gBOAcAAJQFNAD0BrwAkAPM
ALAG/ACQBqgASAr4AEgHhADoB3gAlAeAATgE0AE4AywBOATQATgICAE4AlgBOAbMATgHZAE4B0AB
OAjAANQJMAE4A3gAEAYAGQF+AE4B8gAqAZoALQMgABkBTgBOAZEATgG1AE4A3gAuAd0AJQKfAE4
BmgBMAgIABAHUAE8CDwAMAg8ADAIpAAwCDwAMAg8ADAIpAAwDLgBOAbIAQgHRAE4B0QBOAdEATgH
RAE4BGBATAVgATgHAAE4BFABOAOAATgKKAE4CJQA/AiUAPwILAD8CJQA/AiUAPwGGAE4CFQBOAJY
ASgI2AEoCNgBKAJYASgIsADwB6gBOAgAATgHyAE4B8gBOAfIATgHyAE4B8gBOAfIATgMuAE4BfwA
kAdkATgHZAE4B4gBOAcIAIwDnAE4A4wBRAJ//xACO/98B4gBOAEYATgHMAE4B5gBOAEYATgHMAE4
BsABOAE8ATgHMAE4B5gBOAEYATgHMAE4CCABOAEoATgIIAE4CDwAMAFIATgIPAAwB8gBOApYATgH
2ACUBsgBCAbMATgGyAEIB0wBOAbIAQgGzAE4BsgBCAbQATgJAAE4CYABOAKAATgIfAE4B0QBOAcI
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OAKwATgJDAB8CrQBOAiAATgHoAE4BuWBOAXYATgFKAE4BWWBOAQn/+gEYAE4AgQApAQT//gGTAE4
B3ABPAb4AQwHiAE4BuABOARIAUQG4AE4A/wBOAb//3gDN/9oCVQBOAaYATgKKAE4B4gBOAooATgH
0AEACigBOAEIATgKLAE4B9QBAAiUAPwHMAE4CJQA/AeYATgM2AE4DFwBOAJQATgFrAE4CNABOAVs
APQIOAE4BkwBOAJEAJQG8ADECMQALAdkATgGvACQCMQALAdkATgGSAAABCwAsAZIAAAFu/+sBkgA

```

AAWcAtgI2AEoB5gBOAjYASgHmAE4CNgBKAEYATgI2AEoB5gBOAjYASgHmAE4CNgBKAEIAJAIsADw
CJgAfAeAATgImAB8B4ABOAIYAHwHgAE4CMQAlAa8AJAGTAC4BiwAuAVMALgA/AAQByv/+AX8ATAG
7AE4Bxf/+AUYATgJqAE4CZgBOAsgATgGCAE4CigBOAs8ATgLRAE4A+wAPAhSADAIiAE4BvwBOAhE
ADAG/AE4CWABOAKAAUAIVAE4BKwBQAF4ATgIVAawCtwBQAOEAUAJuAE4CCQA+AkWUAUIjAE4CRQB
OAgMATgIrADwCgABOAmwATgJ2ACwA2wAjAfoAAAH5AE4BygBOAEIATgDkAFEB7QBOAfKATgHjAE4
CBAVAeYATgHKAE4B0gBOAEIATgHhAD4AjQA2AEIATgJAAE4CBwBOAfIATgGfAE4B5gBOAhQAQgH
mAE4BmQBOAg4ATgGeAE4CAwBCAoAATgI4AE4CgQBOAqQAQgCV/98B7QBOAEYATgHtAE4ChQBOAUn
//gFJ//4ApQARAE//gHg//4BPAARAdYATgHgABEEFwBSARcAKgEnAAQB4gBOAhEATgJcAHMCwB
OAmoATgIjAE4BiABOAYcATgJtAE4BygAAAIwATgJqAE4HfAASAgQATgHmACwCLAAxAFsABAIHAAw
B/gADAF4ABwH9AAYCBgALAKEAAgPXAE4DNwBOA9sATgN9ABUDkwBOAs8ATgAAAAAMAAAADAAAAHAA
BAAAAAFsAAMAAQAAABWABAFQAAAAUABAAAUAEAB+AKUAqwCxALYAuAC7AO8BEwErATEBPgFIAU0
BXQFzAX4CQGLHAt0DhgOKA4wDoQOoA84gGiAeICIGJiAwIDogRCCsISiHJiIG+wL7BP//AAAAIAC
hAKcArCQ0ALgAuWC/APEBFgEuATQBQFKAABXwF4AhgCxcgLYA4UDiAOMA44DowOqIBggHCaiICY
gMCA5IEQgrCEiISYiBvsA+wT////j/8H/wP+//73/vP+6/7f/tv+0/7L/sP+u/63/q/+q/6b/Df5
h/1H9qv2p/aj9p/2m/aXhXOFb4VjhVeFM4UThO+DU4F/gXN99BoQGgwABAAAAAAAAAAAAAAAAAAAA
AA
AAAAAAAAAAAAAAAAABgIKAAAAAAAAEAAEAAA
AA
AA
SABMAFAAVABYAFwAYABkAGgAbABwAHQAEAB8AIAAhACIAIwAkACUAJgAnACgAKQACsALAAtAC4
ALwAwADEAMgAzADQANQA2ADcAOAA5ADoAOwA8AD0APgA/AEAAQBCAEMARABFAEYARwBIAEKASgB
LAEWATQBOAE8AUABRAFIAUwBUAFUAVgBXAFgAWQBaAFsAXABdAF4AXwBgAGEAAAB7AHwAfgCAAIg
AjQCTAJgAlwCZAJsAmgCcAJ4AoACfAKEAogCkAKMAPQCMaKcAqQCoAKoArACrALAArwCxALIAAAB
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
```

```

{
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
        { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
            endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
            endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
            endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
            endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
            endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),

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        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ],
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
                    ]
                }
            ]
        }
    ]
}

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    ]
    }],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
                    progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
                    progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
                    Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration: 2,
                    progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
                    Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration: 2,
                    progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
                    startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration: 2,
                    progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
                    startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration: 0,
                    progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
    }
]

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        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
                Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
                progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate: new
                Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
                progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review meeting',
                startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
                progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
                progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },

```

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    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];

```

```

export let adventProFont: string =
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```

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0AKP/wACk/8AApf/AAKb/wACo/28Aqf9vAKr/bwCr/28ArP9vAK7/bwDj/8AA/v9vAAMAD//aABH/zAaR//gAIwAP/8kAEf+8ACT/0QBE/9EASP/dAFL/3ABY/90Ad//RAHj/0QB5/9EAev/RAHv/0QB8/9EA1//RAJj/0QCZ/9EAmv/RAJv/0QCC/9EAnf/RAJ//3QCg/90Aof/dAKL/3QCo/9wAqf/cAKr/3ACr/9wArP/cAK7/3ACv/90AsP/dALH/3QCy/90A/v/cABcAJv/NAC//+wAy/+kASP/vAFL/6wBY/+0AXP/dAJ//7wCg/+8Aof/vAKL/7wCo/+sAqf/rAKr/6wCr/+sArP/rAK7/6wCv/+0AsP/tALH/7QCy/+0Atf/dAP7/6wAIAAX/+gAK/vQAN/+6ADn/rAA6/7kAPP9OAR7/TgF1/7QAAQAx//UACwAP/8gAEf+6ACT/2gAq//cAMv/zAHf/2gB4/9oAef/aAHR/2gB7/9oAfP/aABAAD//PABH/vQAK/94AMv/9ADP/9QA5/+YAov/iADv/9wA8/9gAd//eAHj/3gB5/94Aev/eAHv/3gB8/94BHv/YAB8AD/7WABH+xwAk/50AL//6AET/xQBI/9sAUv/XAHf/nQB4/50Aef+dAHR/nQB7/50AfP+dAJf/xQCY/8UAmf/FAJr/xQCb/8UANP/FAJ3/xQCF/9sAoP/bAKH/2wCi/9sAqP/XAKn/1wCq/9cAq//XAKz/1wCu/9cA/v/XAAQAD/8LABH/CQA1//YAOP8RAAoAMv/cADb/+AA3/90AOP/FADn/3gA6/9gAPP/gAFz/2wC1/9sBHv/gAAMAD//BABH/sAA3//QALgAP/5MAEP+wABH/hQAd/7IAHv+sACT/pgBE/6oARv+jAEj/sgBL//YAUv+xAFX/oQBW/5EAWP+5AFr/twBc/7YAd/+mAHj/pgB5/6YAev+mAHv/pgB8/6YAl/+qAJj/qgCZ/6oAmv+qAJv/qgCc/6oAnf+qAJ7/owCf/7IAoP+yAKH/sgCi/7IAqP+xAKn/sQCq/7EAq/+xAKz/sQCu/7EAR/+5ALD/uQCx/7kAsv+5ALX/tgD+/7EACQAP/60AEf+bACT/vAB3/7wAeP+8AHn/vAB6/7wAe/+8AHz/vAAxAA//gQAQ/7oAef90AB3/uwAe/6sAJP+OACr/yAAy/98ARP+pAEj/uwBM//MAUv+4AFX/2wBY/98AXP/kAHf/jgB4/44Aef+OAHr/jgB7/44AfP+OAJf/qQCY/6kAmf+pAJr/qQCb/6kAnP+pAJ3/qQCF/7sAoP+7AKH/uwCi/7sAo//zAKT/8wC1//MAPv/zAKj/uACp/7gAqv+4AKv/uACs/7gArv+4AK//3wCw/98Asf/fALL/3wC1/+QA4//zAP7/uAAxAA//mwAQ/8cAEf+PAB3/yAAe/74AJP+oADL/5gBE/7sASP/RAEv/6ABM//AAUv/GAFX/7gBY/+AAXP/SAHf/qAB4/6gAef+oAHR/qAB7/6gAfP+oAJf/uwCY/7sAmf+7AJr/uwCb/7sAnP+7AJ3/uwCf/9EAoP/RAKH/0QCi/9EAo//wAKT/8AC1//AAPv/wAKj/xgCp/8YAqv/GAKv/xgCs/8YArv/GAK//4ACw/+AAsf/gALL/4AC1/9IA4//wAP7/xgACADz/6gEe/+oAHQAP/8sAEP/SABH/vAAd/9cAHv/eACT/2AAy/9gAUv/1AFP/xgB3/9gAeP/YAHn/2AB6/9gAe//YAHz/2ACX/+IAmP/iAJn/4gCa/+IAm//iAJz/4gCd/+IAqP/lAKn/5QCq/+UAq//lAKz/5QCu/+UA/v/1AAGAD//FABH/tABF/8wAT//LAFH//QBZ/9QAXP/XALX/1wAHABH/6QBH//AAS//eAE7/3wBP/98AXP/oALX/6AAGAEf/+QBIAAYAnwAGAKAABgChAAYAogAGACgABf/+AAR/xgAP/7AAEf+kAET/rgBF//cARv/qAEf/6gBI/80ASf/tAER/7QBL//QATP/wAE//6wBQ//QAuf/3AFL/xQBT/+oAVP/tAFX/9ABd/+oAl//+AJj/vgCZ/74Amv++AJv/vgCc/74Anf++AJ//1wCg/9cAof/XAKL/1wCo/8UAqf/FAKr/xQCr/8UArP/FAK7/xQD+/8UBdf/6ACAeF/sAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wCd//sAn//AKD//wCh//8Aov//AKP/6wCk/+sApf/rAKb/6wCo//8Aqf//AKr//wCr//8ArP//AK7//wC1//EA4//rAP7//wAGAE7/8ABY//AAR//wALD/8ACx//AAsv/wABAASP/pAE//9gBS/90AXP/PAJ//6QCg/+kAof/pAKL/6QCo/90Aqf/dAKr/3QCr/90ArP/dAK7/3QC1/88A/v/dAAoARP/wAFD/8ABa/+gAl//wAJj/8ACZ//AAmv/wAJv/8ACc//AAnf/wAAMAuf/9AFz/2QC1/9kACQBS/+0AWP/OAFn/wwBc/8AAR//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ/+YAWv/iAFv/5wBc//IAtf/yAAQAD/+9ABH/rABc/9YAtf/WADQAD/9rABD/tgAR/14AHf+3AB7/nQBE/5sArv/LAEf/1ABI/9EASv/PAEz/5QBO/9kAT//bAFD/2wBR/9sAUv/CAFP/2QBU/80AVf/fAFb/ywBX/+8AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QCj/+UApP/lAKX/5QCM/+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAR//5ALD/+QCx//kAsv/5ALX/6QDj/+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf+KAET/xwBF//oASP/cAJf/xwCY/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEgAP/5oAEf+OAEt/zABH//0ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AAGAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAR/OAAL//YAJv/GACr/xgAy/9oANP/XADf/rAA4/74AOf+YADr/qAA8/5UARP/mAEb/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8ACH//AAov/wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58AAQCC//0AAQCFAbCAAQCGAA8AAQCNAEEAAQCAJAAEAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AA1//6ALX/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQAR/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9cAEf/GAER//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+IAnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UARP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Render react component in column in React Treegrid component

You can use [queryCellInfo](#) event to render the React component inside TreeGrid cells.

In the following sample, the DropDownList is rendered in the **Priority** column.

APP.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { DataUtil } from '@syncfusion/ej2-data';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    let drop;
    const dropdown = (args) => {
        drop = DataUtil.distinct(projectData, 'Priority');
        if (args.column.field === "Priority") {
            const val = getValue(args.column.field, args.data);
            ReactDOM.render(<DropDownListComponent id="dropdown" value={val}
dataSource={drop} change={onChange}/>, args.cell);
        }
    };
    const onChange = (args) => {
        /** Event will trigger when you have change the value in dropdown
column */
        alert(args.value);
    };
    return (<div>
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' queryCellInfo={dropdown}
height={315}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name '
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date '
width='90' format='yMd' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='EndDate' headerText='End Date' width='90'
format='yMd' textAlign='Right'></ColumnDirective>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'></ColumnDirective>
            </ColumnsDirective>
        </TreeGridComponent>
    </div>);
}
;
export default App;
```

APP.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { DataUtil } from '@syncfusion/ej2-data';
import { ChangeEventArgs } from '@syncfusion/ej2-dropdowns';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { ColumnsDirective, ColumnDirective, TreeGridComponent } from '@syncfusion/ej2-react-treegrid';
import { QueryCellInfoEventArgs, Column } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    let drop: string[];
    const dropdown = (args: QueryCellInfoEventArgs) => {
        drop = DataUtil.distinct(projectData, 'Priority') as string[];
        if((args.column as Column).field === "Priority") {
            const val = getValue((args.column as Column).field, args.data);
            ReactDOM.render(<DropDownListComponent id="dropdown" value={val}
dataSource={drop} change={onChange}/>, args.cell as Element)
        }
    }
    const onChange = (args: ChangeEventArgs) => {
        /** Event will trigger when you have change the value in dropdown column
        */
        alert(args.value)
    }
    return (<div>
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentId' queryCellInfo={dropdown}
height={315}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
                <ColumnDirective field='EndDate' headerText='End Date' width='90'
format='yMd' textAlign='Right' />
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
            </ColumnsDirective>
        </TreeGridComponent>
    </div>
    );
};
export default App;

```

DATASOURCE.JSX


```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
      { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
      { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),

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        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ],
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
                    ]
                }
            ]
        }
    ]
}

```



```

    ]
    }
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
          endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
          endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
          endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
          startDate: new Date('02/28/2017'),
          endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
      ]
    }
  ]
},
{
  taskID: 29,
  taskName: 'Phase 3',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,
  duration: 11,

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```

        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
            ]
        }]
    }
}

];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
      'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
];

```

```

    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
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/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8Ach//AAov/wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AA1//6ALX/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQAR/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9cAEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAhr/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+IAnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+//UAAQEuABYAAQF0/6EAAwBW/7YAV//uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
```

```

        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),

```

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        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
    ]
  }
},
{
  taskID: 21,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/28/2017'),
  priority: 'High',
  approved: false,
  duration: 12,
  progress: 60,
  subtasks: [{
    taskID: 22,
    taskName: 'Implementation Module 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'Critical',
    approved: false,
    duration: 12,
    progress: 90,
    subtasks: [
      { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
      { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
      { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
      { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
      { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
    ]
  }
]
}
}

```

```

        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
          endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
      ]
    }],
  },
  {
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
      taskID: 30,
      taskName: 'Implementation Module 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'High',
      approved: false,
      duration: 11,
      progress: 60,
      subtasks: [
        { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
      ]
    }
  ]
}
]
}
];
export let projectData: object[] = [

```

```

    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
  ];
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AIEoAAAAAAAAAAEFEQkUAAAAG+wQDxP8YAAADWgDoAAAMwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
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```

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```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Customize the icon for column menu in React Treegrid component

You can customize the column menu icon by overriding the default treegrid class **.e-icons.e-columnmenu** with a custom property **content** as mentioned below,

```
`css
.e-treegrid .e-columnheader .e-icons.e-columnmenu::before {
content: "\e903";
}
`
```

In the below sample, treegrid is rendered with a customized column menu icon.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, ColumnMenu, Inject } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    return (<div>
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' showColumnMenu={true}
height={315}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right'>
                <ColumnDirective field='EndDate' headerText='End Date' width='90'
format='yMd' textAlign='Right'>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'>
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'>
            </ColumnsDirective>
        </TreeGridComponent>
    </div>);
}
```



```

        </ColumnsDirective>
        <Inject services={[ColumnMenu]}/>
    </TreeGridComponent>
</div>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, ColumnMenu,
Inject } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    return <div>
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' showColumnMenu={true}
height={315}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
                <ColumnDirective field='EndDate' headerText='End Date' width='90'
format='yMd' textAlign='Right' />
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[ColumnMenu]} />
        </TreeGridComponent>
    </div>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),

```

```

        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,

```

```

subtasks: [
  {
    taskID: 13,
    taskName: 'Phase 1',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    progress: 50,
    duration: 11,
    subtasks: [{
      taskID: 14,
      taskName: 'Implementation Module 1',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      duration: 11,
      progress: 10,
      approved: false,
      subtasks: [
        { taskID: 15, taskName: 'Development Task 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
          startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
      ]
    }
  ],
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{

```



```

        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),

```

```

        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
    ]
    }
}
]
];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',

```

```

      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    }
  ];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmAAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
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ANmhoZWEK6QfqAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAAADOm1heHAB5QB
RAAABeAAAACBuYw1lvYEFiWAAlugAAAbGcG9zdL7lSo8AAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAc
AAQAAAAIAg2XnRcRfDzz1AAsD6AAAAADK+KMLAAAAAMttdz//xP81B14DvQAAAAgAagAAAAAAAA
BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWAAAAV4AMgD6AAACAAUGBAAAAgAEgAAArxA
AIEoAAAAAAAAAAEFEQkUAAAAG+wQDxP8YAAADWgDoAAAMwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
BTQAAARYAAADWAE4BqgBzAmUAIGIcACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAiAKUAEQG
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dALL//gHcAE8BuABOArYATgKKAE4CJQA/AiMATgILAD8CNABOAJEAJQGSAAACNgBKak8ATgMpAE4
CSwAtAiWAPAIImAB8BPwBOAeMATgE/AE4BkwBOAgIATADeAC4BygAlAeIATgF/ACQB2wBHAbIAIwE
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ALAG/ACQBqgASAr4AEgHhADoB3gAlAeAATgE0AE4AywBOATgICAE4AlgBOAbMATgHZAE4B0AB
OAjAANQJMAE4A3gAEAYAGQF+AE4B8gAqAZoALQMgABkBTgBOAZEATgG1AE4A3gAuAd0AJQKfAE4
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RAE4BGABTAVgATgHAAE4BFABOAOaATgKKAE4CJQA/AiUAPwILAD8CJQA/AiUAPwGGAE4CFQBOAJY
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```

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XRhecF+IYGhUGIoYthjQGOwZBBkoGWQZlhnKGfoaOBpeGoIawBrqGxYbPhTaG5YbvhwCHCICzhY
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```

DATASOURCE.TSX

```

export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
      { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
      { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),

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        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ],
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
                    ]
                }
            ]
        }
    ]
}

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    ]
    }],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
                    progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
                    progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
                    Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration: 2,
                    progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
                    Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration: 2,
                    progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
                    startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration: 2,
                    progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
                    startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration: 0,
                    progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
    }
]

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        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}

];
export let projectData: object[] = [
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Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
'EndDate': new Date('03/18/2017'), 'Progress': '40' },

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    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
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1319

```

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uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Customize the edit dialog in React Treegrid component

You can customize the appearance of the edit dialog in the [actionComplete](#) event based on **requestType** as **beginEdit** or **add**.

In the below example, we have changed the dialog's header text for editing and adding records.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Dialog' };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];
    const actionComplete = (args) => {
        if ((args.requestType === 'beginEdit' || args.requestType ===
'add')) {
            const dialog = args.dialog;
            dialog.height = 400;
            // change the header of the dialog
            dialog.header = args.requestType === 'beginEdit' ?
'Record of ' + getValue('TaskName', args.rowData) : 'New
Customer';
        }
    };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID'
actionComplete={actionComplete} editSettings={editOptions}
toolbar={toolbarOptions} height={265}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
            <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar]}></Inject>
    </TreeGridComponent>);
}
;
export default App;
```

APP.TSX

```
import * as React from 'react';
```

```

import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { Dialog } from '@syncfusion/ej2-popups';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel } from
 '@syncfusion/ej2-react-treegrid';
import { DialogEditEventArgs } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Dialog' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
    const actionComplete = (args: DialogEditEventArgs): void => {
        if ((args.requestType === 'beginEdit' || args.requestType === 'add')) {
            const dialog: Dialog = args.dialog as Dialog;
            dialog.height = 400;
            // change the header of the dialog
            dialog.header = args.requestType === 'beginEdit' ?
                'Record of ' + getValue('TaskName', args.rowData) : 'New Customer';
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID'
actionComplete={actionComplete} editSettings={editOptions}
toolbar={toolbarOptions} height={265}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Edit, Toolbar]} />
        </TreeGridComponent>
    );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [

```



```

        { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,

```

```

        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
                            startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration:
                            3, progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
                            startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration:
                            3, progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate:
                            new Date('02/20/2017'),
                            endDate: new Date('02/21/2017'), duration:
                            2, progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate:
                            new Date('02/24/2017'),
                            endDate: new Date('02/25/2017'), duration:
                            2, progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review
                            meeting', startDate: new Date('02/26/2017'),
                            endDate: new Date('02/27/2017'), duration:
                            2, progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
                            startDate: new Date('02/27/2017'),
                            endDate: new Date('02/27/2017'), duration:
                            0, progress: '50', priority: 'Low', approved: true }
                    ]
                }
            ]
        },
        {
            taskID: 21,
            taskName: 'Phase 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'High',
            approved: false,
            duration: 12,

```



```

        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
                4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
                4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
                new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
                2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
                new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
                2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
                meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
                2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
                startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
                0, progress: '50', priority: 'Normal', approved: false }
            ]
        }]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [

```

```

        { taskID: 31, taskName: 'Development Task 1',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
        3, progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
        3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate:
        new Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration:
        2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
        new Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration:
        2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
        meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
        2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
        0, progress: '50', priority: 'Critical', approved: false },
      ]
    }
  }
]
];
export let projectData = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
  },
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
  },
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
  },
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
  },
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
  },
];

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    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let stackedData = [
    {
        orderID: '1',
        orderName: 'Order 1',
        orderDate: new Date('02/03/2017'),
        shippedDate: new Date('02/09/2017'),
        units: '1395',
        unitPrice: '47.00',
        price: 65.95,
        shipMentCategory: 'Seafood',
        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', shipMentCategory:
'Frozen seafood', units: '35',
                orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.56', price: 43.96 },
            { orderID: '1.2', orderName: 'Yellowfin Tuna', shipMentCategory:
'Frozen seafood', units: '324',
                orderDate: new Date('05/03/2017'), shippedDate: new
Date('05/10/2017'), unitPrice: '28.26', price: 91.24 },
            { orderID: '1.3', orderName: 'Herrings', shipMentCategory:
'Frozen seafood', units: '48',
                orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.35', price: 54.48 },
            { orderID: '1.4', orderName: 'Preserved Olives',
shipMentCategory: 'Edible', units: '125',

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        orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '29.23', price: 36.75 },
        { orderID: '1.5', orderName: 'Sweet corn Frozen',
shipMentCategory: 'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2017'), unitPrice: '47.17', price: 10.91 }
    ]
},
{
    orderID: '2',
    orderName: 'Order 2',
    orderDate: new Date('01/10/2018'),
    shippedDate: new Date('01/16/2018'),
    units: '1944',
    unitPrice: '58.45',
    price: 26.78,
    shipMentCategory: 'Seafood',
    subtasks: [
        { orderID: '2.1', orderName: 'Tilapias', shipMentCategory:
'Frozen Seafood',
            orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.25', price: 42.45 },
        { orderID: '2.2', orderName: 'White Shrimp', shipMentCategory:
'Frozen seafood', units: '560',
            orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '72.45', price: 36.25 },
        { orderID: '2.3', orderName: 'Fresh Cheese', shipMentCategory:
'Dairy', units: '323', unitPrice: 12.45,
            orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 40.35 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese',
shipMentCategory: 'Dairy', units: '370', unitPrice: 15.36,
            orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 56.82 },
        { orderID: '2.5', orderName: 'Butter', shipMentCategory:
'Dairy', units: '413', unitPrice: '19.35',
            orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 79.55 }
    ]
},
{
    orderID: '3',
    orderName: 'Order 3',
    orderDate: new Date('09/10/2018'),
    shippedDate: new Date('09/20/2018'),
    units: '1120',
    unitPrice: '33.34',
    price: 37.48,
    shipMentCategory: 'Seafood',
    subtasks: [
        { orderID: '3.1', orderName: 'Lead glassware', shipMentCategory:
'Solid crystals',
            orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '46.45', price: 25.79 },
        { orderID: '3.2', orderName: 'Pharmaceutical', shipMentCategory:
'Solid crystals',

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        orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.56', price: 37.44 },
        { orderID: '3.3', orderName: 'Glass beads', shipMentCategory:
'Solid crystals', units: '254',
        orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.25', price: 41.25 }
    ]
}
];
export let adventProFont =
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uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
    ]
  }
]
```

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        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
  ],
  {
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
      {
        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),

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        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate: new
                Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
                progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate: new
                Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
                progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review meeting',
                startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
                progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
                progress: '50', priority: 'Low', approved: true }
            ]
        }]
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,

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        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
        ]
    }
},
{
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },

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        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },

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    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
  ];
export let stackedData: Object[] = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.00',
    price: 65.95,
    shipMentCategory: 'Seafood',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', shipMentCategory:
'Frozen seafood', units: '35',
        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.56', price: 43.96},
      { orderID: '1.2', orderName: 'Yellowfin Tuna', shipMentCategory:
'Frozen seafood', units: '324',
        orderDate: new Date('05/03/2017'), shippedDate: new
Date('05/10/2017'), unitPrice: '28.26', price: 91.24 },
      { orderID: '1.3', orderName: 'Herrings', shipMentCategory:
'Frozen seafood', units: '48',
        orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.35', price: 54.48 },
      { orderID: '1.4', orderName: 'Preserved Olives',
shipMentCategory: 'Edible', units: '125',
        orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '29.23', price: 36.75},
      { orderID: '1.5', orderName: 'Sweet corn Frozen',
shipMentCategory: 'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2017'), unitPrice: '47.17', price: 10.91 }
    ]
  },
  {
    orderID: '2',
    orderName: 'Order 2',
    orderDate: new Date('01/10/2018'),
    shippedDate: new Date('01/16/2018'),
    units: '1944',
    unitPrice: '58.45',
    price: 26.78,
    shipMentCategory: 'Seafood',
    subtasks: [

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        { orderID: '2.1', orderName: 'Tilapias', shipMentCategory:
'Frozen Seafood',
        orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.25', price: 42.45 },
        { orderID: '2.2', orderName: 'White Shrimp', shipMentCategory:
'Frozen seafood', units: '560',
        orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '72.45', price: 36.25 },
        { orderID: '2.3', orderName: 'Fresh Cheese', shipMentCategory:
'Dairy', units: '323', unitPrice: 12.45,
        orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 40.35 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese',
shipMentCategory: 'Dairy', units: '370', unitPrice: 15.36,
        orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 56.82 },
        { orderID: '2.5', orderName: 'Butter', shipMentCategory:
'Dairy', units: '413', unitPrice: '19.35',
        orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 79.55}
    ]
},
{
    orderID: '3',
    orderName: 'Order 3',
    orderDate: new Date('09/10/2018'),
    shippedDate: new Date('09/20/2018'),
    units: '1120',
    unitPrice: '33.34',
    price: 37.48,
    shipMentCategory: 'Seafood',
    subtasks: [
        { orderID: '3.1', orderName: 'Lead glassware', shipMentCategory:
'Solid crystals',
        orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '46.45', price: 25.79 },
        { orderID: '3.2', orderName: 'Pharmaceutical', shipMentCategory:
'Solid crystals',
        orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.56', price: 37.44 },
        { orderID: '3.3', orderName: 'Glass beads', shipMentCategory:
'Solid crystals', units: '254',
        orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.25', price: 41.25 }
    ]
}
];
export let adventProFont: string =
'AAEAAAARAQAABAAQRFNJRwAAAAEAAALa8AAAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmaAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
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ANmhoZWEEK6QfQAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAVoAAADOm1heHAB5QB
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```

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ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AAGAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAr/OAAl//YAJv/GACr/xgAy/9oANP/XADf/rAA4/74AOf+YADr/qAA8/5UARP/mAEb/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8Ach//AAov/wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAl//6ALX/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQAR/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9cAEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAhr/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+IAnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+//UAAQEuABYAAQF0/6EAAwBW/7YAV//uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Cascading drop down list with treegrid editing in React Treegrid component

You can achieve the Cascading DropDownList with treegrid Editing by using the Cell Edit Template feature.

In the below demo, Cascading DropDownList rendered for **Priority** and **Duration** column.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { DataManager, Query } from '@syncfusion/ej2-data';
import { DropDownList } from '@syncfusion/ej2-dropdowns';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Row' };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];
    let treegridObj;
    let priorityElem;
    let priorityObj;
    let durationElem;
    let durationObj;
    const priority = {
        create: () => {
            priorityElem = document.createElement('input');
            return priorityElem;
        },
        destroy: () => {
            priorityObj.destroy();
        },
        read: () => {
            return priorityObj.text;
        },
        write: () => {
            priorityObj = new DropDownList({
```



```

        change: () => {
            durationObj.enabled = true;
            const tempQuery = new Query().where('priorityId',
'equal', priorityObj.value);
            durationObj.query = tempQuery;
            durationObj.text = '';
            durationObj.dataBind();
        },
        dataSource: new DataManager(priorityData),
        fields: { value: 'priorityId', text: 'priorityName' },
        floatLabelType: 'Never',
        placeholder: 'Select a Priority'
    });
    priorityObj.appendTo(priorityElem);
}
};
const duration = {
    create: () => {
        durationElem = document.createElement('input');
        return durationElem;
    },
    destroy: () => {
        durationObj.destroy();
    },
    read: () => {
        return durationObj.text;
    },
    write: () => {
        durationObj = new DropDownList({
            dataSource: new DataManager(durationData),
            enabled: false,
            fields: { value: 'durationId', text: 'durationValue' },
            floatLabelType: 'Never',
            placeholder: 'Select a duration'
        });
        durationObj.appendTo(durationElem);
    }
};
const priorityData = [
    { priorityName: 'Normal', priorityId: '1' },
    { priorityName: 'High', priorityId: '2' }
];
const durationData = [
    { durationValue: 2, priorityId: '1', durationId: 2 },
    { durationValue: 3, priorityId: '1', durationId: 3 },
    { durationValue: 4, priorityId: '1', durationId: 4 },
    { durationValue: 11, priorityId: '2', durationId: 11 },
    { durationValue: 15, priorityId: '2', durationId: 15 },
    { durationValue: 20, priorityId: '2', durationId: 20 }
];
return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' editSettings={editOptions}
toolbar={toolbarOptions} ref={g => treegridObj = g} height={273}>
    <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>

```

```

        <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' edit={priority}/>
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' edit={duration}/>
        <ColumnDirective field='Progress' headerText='Progress' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]} />
</TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { DataManager, Query } from '@syncfusion/ej2-data';
import { DropDownList } from '@syncfusion/ej2-dropdowns';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel } from
 '@syncfusion/ej2-react-treegrid';
import { IEditCell } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Row' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
    let treegridObj: TreeGridComponent | null;
    let priorityElem: HTMLElement;
    let priorityObj: DropDownList;
    let durationElem: HTMLElement;
    let durationObj: DropDownList;
    const priority: IEditCell = {
        create: () => {
            priorityElem = document.createElement('input');
            return priorityElem;
        },
        destroy: () => {
            priorityObj.destroy();
        },
        read: () => {
            return priorityObj.text;
        },
        write: () => {
            priorityObj = new DropDownList({
                change: () => {
                    durationObj.enabled = true;

```

```

        const tempQuery: Query = new Query().where('priorityId', 'equal',
priorityObj.value);
        durationObj.query = tempQuery;
        durationObj.text = '';
        durationObj.dataBind();
    },
    dataSource: new DataManager(priorityData),
    fields: { value: 'priorityId', text: 'priorityName' },
    floatLabelType: 'Never',
    placeholder: 'Select a Priority'
    });
    priorityObj.appendTo(priorityElem);
}
}
const duration: IEditCell = {
    create: ()=>{
        durationElem = document.createElement('input');
        return durationElem;
    },
    destroy: ()=>{
        durationObj.destroy();
    },
    read: ()=>{
        return durationObj.text;
    },
    write: ()=>{
        durationObj = new DropDownList({
            dataSource: new DataManager(durationData),
            enabled: false,
            fields: { value: 'durationId', text: 'durationValue' },
            floatLabelType: 'Never',
            placeholder: 'Select a duration'
        });
        durationObj.appendTo(durationElem);
    }
}
const priorityData: object[] = [
    { priorityName: 'Normal', priorityId: '1' },
    { priorityName: 'High', priorityId: '2' }
];
const durationData: object[] = [
    { durationValue: 2, priorityId: '1', durationId: 2 },
    { durationValue: 3, priorityId: '1', durationId: 3 },
    { durationValue: 4, priorityId: '1', durationId: 4 },
    { durationValue: 11, priorityId: '2', durationId: 11 },
    { durationValue: 15, priorityId: '2', durationId: 15 },
    { durationValue: 20, priorityId: '2', durationId: 20 }
];
return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' editSettings={editOptions}
toolbar={toolbarOptions}
    ref={g => treegridObj = g} height={273}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>

```

```

        <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' edit={priority} />
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' edit={duration} />
        <ColumnDirective field='Progress' headerText='Progress' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar]} />
</TreeGridComponent>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
    }
]

```

```

        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [

```

```

        { taskID: 15, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
  startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
  startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),

```

```

                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            ]
        }
    ]
}

```

```

        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
        0, progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
    Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
    Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    ],

```



```
{ 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
{ 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
{ 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAAAACEZGVE1fekHUAACnZAAAABxHREVGAACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmAAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAQAACnXAAAAAhnbHlmlUxHIQAADyQAAIfEaGVhZPyoXpQAAAEcAAA
ANmhoZWEK6QfQAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAVoAAADOm1heHAB5QB
RAAABeAAAACBuYw1lvYEFiWAALugAAABGcG9zdL7lSo8AAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAc
AAQAAAAAIAG2XnRcRfDzzlAASD6AAAAADK+KMLAAAAAMttdz//xP8lB14DvQAAAAgAagAAAAAAAA
BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWA AAAAV4AMgD6AAACAAUGBAAAAgAEgAAArxA
AIEoAAAAAAAAAAEFEFQkUAAAAg+wQDxP8YAADWgDoAAAAmwAAAAAB9QK8AAAAIAACafQAAAHKAAA
BTQAAARYAAADWAE4BqgBzAmUAIGiCACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAiAKUAEQGG
aAC0AewARAAaYAGgILAD8A0gAaAZMAGgG6ABoB6gAaAboAGgHdABoBvgAaAdoAGgHdABoAawAaAJQ
AGgFpABoBdAaaAwKAGgGXABoCwAaAg8ADAIiAE4BsgBCaKaATgHRAE4BvwBOAhkAQQJMAE4AxAa
dALL//gHcAE8BuABOArYATgKKAE4CJQA/AiMATgILAD8CNABOAJEAJQGSAAACNgBKak8ATgMpAE4
CSwAtAiWAPAIImAB8BPwBOAeMATgE/AE4BkwBOAgIATADeAC4BygAlAeIATgF/ACQB2wBHAbIAIwE
oAE4BwAALAE0AQADVAE4Awv/6AbMAQwDLAE4C4QBOAfQAQAHHAC8B6gBOAcAAJQFNAD0BrwAkAPM
ALAG/ACQBqgASAr4AEgHhAdoB3gAlAeAATgE0AE4AywBOATQATgICAE4AlgBOAbMATgHZAE4B0AB
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BmgBMAgIABAHUAE8CDwAMAg8ADAIpAAwCDwAMAg8ADAIpAAwDLgBOAbIAQgHRAE4B0QBOAdEATgH
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DATASOURCE.TSX

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      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {

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        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate: new
                Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
                progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate: new
                Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
                progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review meeting',
                startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
                progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
                progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',

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        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },

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        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }
}
]
}
];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
'EndDate': new Date('03/13/2017'), 'Progress': '40' },

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    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
  ];
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```

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d/+IAqP/lAKn/5QCq/+UAq//lAKz/5QCu/+UA/v/lAAGAD//FABH/tABF/8wAT//LAFH//QBZ/9Q
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AEf/mAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wC
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/6QDj/+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf+KAET/xwBF//oASP/cAJf/xwC
Y/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEGAP/5oAEf+OAET/zABH//0
ASP/kAEv/5gBb/+oAl//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AA
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AAQCC//0AAQCFABCAAAQCGAA8AAQCNAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
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AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHr/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Provide custom data source and enabling filtering to drop down list in React Treegrid component

You can provide data source to the DropDownList by using the **params** of [columns.edit](#) property.

While setting new data source using edit params, you must specify a new **query** property for the DropDownList as follows,

```
`ts
```

```
const priority : IEditCell = {
```

```
  params: {
```

```
    actionComplete: () => false,
```

```

allowFiltering: true,
dataSource: new DataManager(this.priorityData),
fields: { text: "countryName", value: "countryName"},
query: new Query()
}
};
`

```

You can also enable filtering for the DropDownList by passing the [allowFiltering](#) as **true** to the edit params.

In the below demo, DropDownList is rendered with custom [dataSource](#) for the *Priority* column and enabled filtering to search DropDownList items.

APP.JSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { DataManager, Query } from '@syncfusion/ej2-data';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Row' };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];
    const priorityData = [
        { priorityName: 'Normal', priorityId: '1' },
        { priorityName: 'High', priorityId: '2' },
        { priorityName: 'Low', priorityId: '3' },
        { priorityName: 'Critical', priorityId: '4' },
        { priorityName: 'Breaker', priorityId: '5' }
    ];
    const priority = {
        params: {
            actionComplete: () => false,
            allowFiltering: true,
            dataSource: new DataManager(priorityData),
            fields: { text: "priorityName", value: "priorityName" },
            query: new Query()
        }
    };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' editSettings={editOptions}
toolbar={toolbarOptions} height={265}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>

```

```

        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Priority' headerText='Priority' width='90'
editType='dropdownedit' textAlign='Right' edit={priority}/>
    </ColumnsDirective>
    <Inject services=[Edit, Toolbar, Page]//>
</TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { DataManager, Query } from '@syncfusion/ej2-data';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel, Page } from
'@syncfusion/ej2-react-treegrid';
import { IEditCell } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Row' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
    const priorityData: object[] = [
        { priorityName: 'Normal', priorityId: '1' },
        { priorityName: 'High', priorityId: '2' },
        { priorityName: 'Low', priorityId: '3' },
        { priorityName: 'Critical', priorityId: '4' },
        { priorityName: 'Breaker', priorityId: '5' }
    ];
    const priority: IEditCell = {
        params: {
            actionComplete: () => false,
            allowFiltering: true,
            dataSource: new DataManager(priorityData),
            fields: { text: "priorityName", value: "priorityName" },
            query: new Query()
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID'
editSettings={editOptions} toolbar={toolbarOptions} height={265}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
            </ColumnsDirective>
        </TreeGridComponent>
    );
}

```

```

        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Priority' headerText='Priority' width='90'
editType='dropdownedit' textAlign='Right' edit={priority} />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar, Page]} />
</TreeGridComponent>
    );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [

```

```

        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),

```

```

        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
    ]
  }
},
{
  taskID: 21,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/28/2017'),
  priority: 'High',
  approved: false,
  duration: 12,
  progress: 60,
  subtasks: [{
    taskID: 22,
    taskName: 'Implementation Module 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'Critical',
    approved: false,
    duration: 12,
    progress: 90,
    subtasks: [
      { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
      { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
      { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
      { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
    ]
  }
]
}
]
}

```

```

        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
          endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
          endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
      ]
    }
  ],
  {
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
      taskID: 30,
      taskName: 'Implementation Module 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'High',
      approved: false,
      duration: 11,
      progress: 60,
      subtasks: [
        { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
      ]
    }
  ]
}

```



```

    ]
  }
};
export let projectData = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
  { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
  { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
  { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
  { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
];

```

[illegible]

AnQCuAHYAYgAAAAAAAAAAYMAawB1AXsAAAB3AHoAjAD9AP4AAAAAXcBeAF0AXUARQAAALUBHgF
/AYABfQF+AYUBhgAAAAABdgF5AXwAeQCBahgAggB/AIQAhQCGAIMaigCLAAAAiQCRAJIakAdJASc
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F4AX4BggGIAY6BkoGZgZ+BqYGzgcIBy4HYAdyB5QHpgfCB94IBggeCDAlPghQCGIIBgiCCMAI8Ak
WCUQJcAmSCcIJ4gn6CiAKOgpICnoKngrECvQLIgs+C3ILigumC7gL1AvsDBoMMGxiDHAMngzCDN4
NEg1CDXgNoA3yDhAOUA6ADp4OrA7uDvoPGA8yD0gPdg+aD74P3BAUEDoQYhCGELgQ0hECESYRbhG
SEbgr2hHyEg4SLBJGELYSjBK8EvATJhNYE5gTWBPaFBouUSB4FKQUxhT+FSYVfBXIFhYWyBa4FvY
XRhecF+IYGhhUGIoYthjQGOWZBBkoGWQZlhnKGfoaOBpeGoIawBrqGxYbPhtaG5YbvhwCHCICzhY
UHOYdFh1sHaod4B4aHkwehh64HvIfJB9QH5QfvB/8IBogTCBwIKYg0iEUITYhbCGkId4iICJkIpA
izCMQI1YjeCOiI8gj8CQYJD4kVCRmJIokuCTUJOILDCUyJWIlkiWyJdIl7iYSJjQmTiZmJoImnib
EJvYnIidaJ3wnqifSKAIoMChcKKAo4ikaKWIpMcnCKf4qLipeKoQqxisIK0QrgivSLA4sTCxyLKA
svCzgLPgtGC1SLYgtsC3SLgguOC5wLqQu4i8cL04vfi+mL8wv8jAUMDYwWDB6MMAxCDEaMSwxRjF
YMXyx1DG0MdgYAjIsmlIyeDKWMswzAjNKM3wzljPKM9oz7jQGNB40NjRkNHQ0jjjSgNLw01DT+NSY
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
    ]
  }
]
```



```

        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ]
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,

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        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [

```

```

        { taskID: 23, taskName: 'Development Task 1',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration: 4,
        progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration: 4,
        progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
        Date('02/21/2017'),
          endDate: new Date('02/24/2017'), duration: 2,
        progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
        Date('02/25/2017'),
          endDate: new Date('02/26/2017'), duration: 2,
        progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
        startDate: new Date('02/27/2017'),
          endDate: new Date('02/28/2017'), duration: 2,
        progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
        startDate: new Date('02/28/2017'),
          endDate: new Date('02/28/2017'), duration: 0,
        progress: '50', priority: 'Normal', approved: false }
      ]
    },
    {
      taskID: 29,
      taskName: 'Phase 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 30,
      subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
          { taskID: 31, taskName: 'Development Task 1',
            startDate: new Date('02/17/2017'),
              endDate: new Date('02/19/2017'), duration: 3,
            progress: '50', priority: 'Low', approved: true },
          { taskID: 32, taskName: 'Development Task 2',
            startDate: new Date('02/17/2017'),
              endDate: new Date('02/19/2017'), duration: 3,
            progress: '50', priority: 'Normal', approved: false },
          { taskID: 33, taskName: 'Testing', startDate: new
            Date('02/20/2017'),

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        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }
}
}
];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },

```

```
{ 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
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PAJ//6QCg//+kAof/pAKL/6QCo/90Aqf/dAKr/3QCr/90ArP/dAK7/3QC1/88A/v/dAAoARP/wAFD
/8ABa//+gAl//wAJj/8ACZ//AAmv/wAJv/8ACc//AAmf/wAAMAUf/9AFz/2QC1/9kACQBS//+0AWP/
OAFn/wwBc/8AAr//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ//+YAWv/iAFv
/5wBc//IAtf/yAAQAD//+9ABH/rABc/9YAtf/WADQAD/9rABD/tgAR/14AHf//+3AB7/nQBE/5sArv/
LAEf/1ABI/9EASv/PAEz/5QBO/9kAT//bAFD/2wBR/9sAUv/CAFP/2QBU/80AVf/fAFb/ywBX//+8
AWP/5AFz/6QCX/5sAmP//+bAJn/mwCa/5sAm//+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QC
j//+UApP/1AKX/5QCm//+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAR//5ALD//+QCx//kAsv/5ALX
/6QDj//+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf//+KAET/xwBF//oASP/cAJf/xwC
Y/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEgAP/5oAEf//+OAET/zABH//0
ASP/kAEv/5gBb//+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg//+QAof/kAKL/5AA
GAEj/6ACf//+gAoP/oAKH/6ACi//+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ//+MAMv/jAJv
/4wCc//+MANf/jAAEAm//wAAEBfAAcADMABf9DAAR/OAA1//YAJv/GACr/xgAy/9oANP/XADf/rAA
4/74AOf//+YADr/qAA8/5UARP/mAEb/5gBH//+gASP/wAFL/5ABT//+oAVP/mAFb/7ABX//+oAWP/nAFn
/swBa/7MAXP/YAJf/5gCY//+YAmf/mAJr/5gCb//+YAnP/mAJ3/5gCe//+YAn//wAKD/8ACH//AAov/
wAKj/5ACp//+QAqv/kAKv/5ACs//+QArv/kAK//5wCw//+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58
AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAER//+QBT//+QAV//
OAFn/4QBa//+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAL//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc//+gAtf/oAAYAD//WABH/ygBF/9KAU//WAFn/3gBb//+IACQA
R/9YARP/jAJf/4wCY//+MAMf/jAJr/4wCb//+MANP/jAJ3/4wACAEB//QCe//0AAQCK//+0ACAAP/9c
AEf/GAER//ABZ//+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAEt/4gBS//+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY//+IAmf/iAJr/4gCb//+I
AnP/iAJ3/4gCo//+UAqf/lAKr/5QCr//+UArP/lAK7/5QD//+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Use wizard like dialog editing in React Treegrid component

Wizard helps you create intuitive step-by-step forms to fill. You can achieve the wizard like editing by using the dialog template feature. It supports your own editing template by defining [editSettings.mode](#) as **Dialog** and [editSetting.template](#) as a REACT Component.

The following example demonstrates the wizard like editing in the treegrid with the obtrusive Validation.

APP.JSX

```

{% raw %}
import * as React from 'react';
import { projectData } from './datasource';
import { DataUtil } from '@syncfusion/ej2-data';
import { projectData as orderData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';

```

```

import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Dialog', template: dialogTemplate };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];
    let treegrid;
    function dialogTemplate(props) {
        const a = [props, treegrid];
        return (<DialogFormTemplate {...a}/>);
    }
    function actionComplete(args) {
        // Set initial Focus
        if (args.requestType === 'beginEdit') {
            args.form.elements.namedItem('TaskName').focus();
        }
        else if (args.requestType === 'add') {
            args.form.elements.namedItem('TaskID').focus();
        }
    }
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' height={265}
toolbar={toolbarOptions} editSettings={editOptions} ref={g => treegrid = g}
actionComplete={actionComplete}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar, Page]}></Inject>
    </TreeGridComponent>);
}
;
function DialogFormTemplate(props) {
    const [currentTab, setCurrentTab] = React.useState(1);
    const priorityData = DataUtil.distinct(orderData, 'Priority', true);
    let treegrid = props[1];
    const [data, setData] = React.useState(props[0]);
    const onChange = (args) => {
        setData({ [args.target.name]: args.target.value });
    };
    const next = (args) => {
        let valid = true;
        [].slice.call(document.getElementById('tab' + currentTab)
            .querySelectorAll('[name]')).forEach((element) => {
            element.form.ej2_instances[0].validate(element.name);
            if (element.getAttribute('aria-invalid') === 'true') {

```

```

        valid = false;
    }
});
if (!valid) {
    return;
}
if (args.target.innerHTML !== 'SUBMIT') {
    setCurrentTab(2);
}
else {
    if (treegrid) {
        treegrid.endEdit();
    }
}
};
const previous = () => {
    let valid = true;
    [].slice.call(document.getElementById('tab' + currentTab)
        .querySelectorAll('[name]')).forEach((element) => {
        element.form.ej2_instances[0].validate(element.name);
        if (element.getAttribute('aria-invalid') === 'true') {
            valid = false;
        }
    });
    if (!valid) {
        return;
    }
    setCurrentTab(1);
};
const styTab1 = {
    'display': currentTab === 1 ? 'block' : 'none'
};
const styTab2 = {
    'display': currentTab === 2 ? 'block' : 'none'
};
return (<div>
    <div id='tab1' style={styTab1}>
        <div className="form-row">
            <div className="form-group col-md-6">
                <div className="e-float-input e-control-wrapper">
                    <input id="TaskID" name="TaskID" type="text"
disabled={!data.isAdd} value={data.TaskID} onChange={onChange}/>
                    <span className="e-float-line"/>
                    <label className="e-float-text e-label-top"> Task
ID</label>
                </div>
            </div>
        </div>
        <div className="form-row">
            <div className="form-group col-md-6">
                <div className="e-float-input e-control-wrapper">
                    <input value={data.TaskName} id="TaskName"
name="TaskName" type="text" onChange={onChange}/>
                    <span className="e-float-line"/>
                    <label className="e-float-text e-label-top">Task
Name</label>
                </div>
            </div>
        </div>
    </div>

```

```

        </div>
      </div>
    </div>
    <div id='tab2' style={styTab2}>
      <div className="form-row">
        <div className="form-group col-md-6">
          <NumericTextBoxComponent id="Duration"
value={data.Duration} placeholder="Duration" floatLabelType='Always' />
        </div>
      </div>
      <div className="form-row">
        <div className="form-group col-md-6">
          <DropDownListComponent id="Priority" value={data.Priority}
dataSource={priorityData} fields={{ text: 'Priority', value: 'Priority' }}
placeholder="Priority" popupHeight='300px' floatLabelType='Always' />
        </div>
      </div>
    </div>
    <div id='footer'>
      <button id="prevBtn" className={currentTab === 1 ? 'e-info e-btn
e-hide' : 'e-info e-btn'} type="button" style={{ float: "left" }}
onClick={previous}>Previous</button>
      <button id="nextBtn" className="e-info e-btn" type="button"
style={{ float: "right" }} onClick={next}>{currentTab === 1 ? 'Next' :
'SUBMIT'}</button>
    </div>
  </div>);
}
;
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import * as React from 'react';
import { projectData } from './datasource';
import { DataUtil } from '@syncfusion/ej2-data';
import { projectData as orderData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel, Page, TreeGrid }
from '@syncfusion/ej2-react-treegrid';
import { DialogEditEventArgs } from '@syncfusion/ej2-react-grids';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
/* tslint:disable */
function App() {
  const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Dialog', template: dialogTemplate };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
  let treegrid: TreeGridComponent | null;
  function dialogTemplate(props: IProjectModel): any {
    const a = [props, treegrid]
    return (<DialogFormTemplate {...a} />);
  }
}

```

```

function actionComplete(args: DialogEditEventArgs): void {
    // Set initial Focus
    if (args.requestType === 'beginEdit') {
        ((args.form as HTMLFormElement).elements.namedItem('TaskName') as
HTMLInputElement).focus();
    } else if (args.requestType === 'add') {
        ((args.form as HTMLFormElement).elements.namedItem('TaskID') as
HTMLInputElement).focus();
    }
}
return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' height={265}
toolbar={toolbarOptions}
    editSettings={editOptions}
    ref={g => treegrid = g} actionComplete={actionComplete}>
    <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar, Page]} />
    </TreeGridComponent>
);
};

function DialogFormTemplate(props:any) {
    const [currentTab, setCurrentTab] = React.useState(1);
    const priorityData: any = DataUtil.distinct(orderData, 'Priority', true );
    let treegrid = props[1];
    const [data, setData] = React.useState(props[0]);
    const onChange = (args: React.ChangeEvent) => {
        setData({[(args.target as HTMLInputElement).name]: (args.target as
HTMLInputElement).value});
    }
    const next = (args: any) => {
        let valid: boolean = true;
        [].slice.call((document.getElementById('tab' + currentTab) as
HTMLElement)
            .querySelectorAll('[name]')).forEach((element: any) => {
                element.form.ej2_instances[0].validate(element.name);
                if (element.getAttribute('aria-invalid') === 'true'){
                    valid = false;
                }
            });
        if (!valid) {
            return
        }
    }
}

```

```

    if (args.target.innerHTML !== 'SUBMIT') {
      setCurrentTab(2);
    } else {
      if (treegrid) {
        treegrid.endEdit();
      }
    }
  }
}

const previous = () => {
  let valid: boolean = true;
  [].slice.call((document.getElementById('tab' + currentTab) as
HTMLInputElement)
    .querySelectorAll('[name]')).forEach((element: any) => {
    element.form.ej2_instances[0].validate(element.name);
    if (element.getAttribute('aria-invalid') === 'true') {
      valid = false;
    }
  });
  if (!valid) {
    return
  }
  setCurrentTab(1);
}

const styTab1: object = {
  'display': currentTab === 1 ? 'block' : 'none'
}

const styTab2: object = {
  'display': currentTab === 2 ? 'block' : 'none'
}

return (<div>
  <div id='tab1' style={styTab1}>
    <div className="form-row">
      <div className="form-group col-md-6">
        <div className="e-float-input e-control-wrapper">
          <input id="TaskID" name="TaskID" type="text"
disabled={!data.isAdd} value={data.TaskID} onChange={onChange} />
          <span className="e-float-line"/>
          <label className="e-float-text e-label-top"> Task
ID</label>
        </div>
      </div>
    </div>
    <div className="form-row">
      <div className="form-group col-md-6">
        <div className="e-float-input e-control-wrapper" >
          <input value={data.TaskName} id="TaskName"
name="TaskName" type="text" onChange={onChange} />
          <span className="e-float-line"/>
          <label className="e-float-text e-label-top">Task
Name</label>
        </div>
      </div>
    </div>
  </div>
  <div id='tab2' style={styTab2}>
    <div className="form-row">

```



```

        <div className="form-group col-md-6">
            <NumericTextBoxComponent id="Duration"
value={data.Duration} placeholder="Duration" floatLabelType='Always' />
        </div>
    </div>
    <div className="form-row">
        <div className="form-group col-md-6">
            <DropDownListComponent id="Priority" value={data.Priority}
dataSource={priorityData}
            fields={{text: 'Priority', value: 'Priority' }}
placeholder="Priority"
            popupHeight='300px' floatLabelType='Always' />
        </div>
    </div>
    <div id='footer'>
        <button id="prevBtn" className={currentTab === 1 ? 'e-info e-btn
e-hide' : 'e-info e-btn'} type="button" style={{float: "left"}}
onClick={previous}>Previous</button>
        <button id="nextBtn" className="e-info e-btn" type="button"
style={{float: "right"}} onClick={next}>{currentTab === 1 ? 'Next' :
'SUBMIT'}</button>
    </div>
</div>);
};
export interface IProjectModel {
    TaskID?: number;
    TaskName?: string;
    StartDate?: Date;
    EndDate?: Date;
    Duration?: number;
    Priority?: string;
    isAdd?: boolean;
    currentTab?: number;
}
export default App;
{% endraw %}

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },

```

```

        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {

```

```

        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
                    3, progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
                    3, progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate:
                    new Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration:
                    2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
                    new Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration:
                    2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
                    meeting', startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration:
                    2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
                    startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration:
                    0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    ],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',

```

```

        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
        ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },

```

```

        { taskID: 32, taskName: 'Development Task 2',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
        3, progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate:
        new Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration:
        2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate:
        new Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration:
        2, progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review
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        { taskID: 36, taskName: 'Phase 3 complete',
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  }
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  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
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  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
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  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
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  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
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  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
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    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
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    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
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},
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AEf/mAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wC
d//sAn//AKD//wCh//8Aov//AKP/6wCk/+sApf/rAKb/6wCo//8Aqf//AKr//wCr//8ArP//AK7
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
```

```

{
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
        { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
            endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
            endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ],
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
            endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
            endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
            endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
            endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),

```

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        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
                duration: 11,
                progress: 10,
                approved: false,
                subtasks: [
                    { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                    { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                    { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                    { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                    { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                    { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
                ]
            }
        ]
    ]
}

```



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    ]
    }],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
                    progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
                    progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
                    Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration: 2,
                    progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
                    Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration: 2,
                    progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
                    startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration: 2,
                    progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
                    startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration: 0,
                    progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
    }
]

```

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        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                    endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
                    endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
'EndDate': new Date('03/18/2017'), 'Progress': '40' },

```



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    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];

```

```

export let adventProFont: string =
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```

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AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QC
j/+UApP/lAKX/5QCM/+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAR//5ALD/+QCx//kAsv/5ALX
/6QDj/+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf+KAET/xwBF//oASP/cAJf/xwC
Y/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEgAP/5oAEf+OAEt/zABH//0
ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AA
GAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv
/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAR/OAAL//YAJv/GACr/xgAy/9oANP/XADf/rAA
4/74AOf+YADr/qAA8/5UARP/mAEB/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn
/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8ACH//AAov/
wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58
AAQCC//0AAQCFAbCAAQCGAA8AAQCNAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AA1//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UARP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Using tab inside the dialog editing in React Treegrid component

You can use [tab](#) component inside dialog edit UI using dialog template feature. The dialog template feature can be enabled by defining [editSettings.mode](#) as `Dialog` and [editSetting.template](#) as a REACT Component.

The following example demonstrate the usage of tab control inside the dialog template.

APP.JSX

```
{% raw %}
import * as React from 'react';
import { DataUtil } from '@syncfusion/ej2-data';
import { projectData } from './datasource';
import { projectData as orderData } from './datasource';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
import { TabComponent, TabItemDirective, TabItemsDirective } from
 '@syncfusion/ej2-react-navigations';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Dialog', template: dialogTemplate };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];
    let treegrid;
    function dialogTemplate(props) {
        const a = [props, treegrid];
        return (<DialogFormTemplate {...a}/>);
    }
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' height={265}
editSettings={editOptions} toolbar={toolbarOptions} ref={g => treegrid = g}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
            <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar, Page]}></TreeGridComponent>);
}
;
function DialogFormTemplate(props) {
```



```

const value = props[0];
let treegrid = props[1];
let tab;
function tabOne() {
  const tabOneProp = [value, tab, treegrid];
  return (<TabOneComponent {...tabOneProp}/>);
}
function tabTwo() {
  const tabTwoProp = [value, tab, treegrid];
  return (<TabTwoComponent {...tabTwoProp}/>);
}
function next() {
  let valid = true;
  [].slice.call(document.getElementById('tab1')
    .querySelectorAll('[name]')).forEach((element) => {
    element.form.ej2_instances[0].validate(element.name);
    if (element.getAttribute('aria-invalid') === 'true') {
      valid = false;
    }
  });
  if (!valid) {
    return false;
  }
  return true;
}
function selecting(e) {
  {
    if (e.isSwiped) {
      e.cancel = true;
    }
    if (e.selectingIndex === 1) {
      e.cancel = !next();
    }
  }
}
return (<div>
  <TabComponent id='defaultTab' ref={(t) => tab = t}
  selecting={selecting}>
    <TabItemsDirective>
      <TabItemDirective header={{ 'text': 'Details' }}
content={tabOne}/>
      <TabItemDirective header={{ 'text': 'Verify' }}
content={tabTwo}/>
    </TabItemsDirective>
  </TabComponent>
</div>);
}
function TabOneComponent(props) {
  const [tabdata, setTabData] = React.useState(props[0]);
  let tab = props[1];
  function onChange(args) {
    setTabData({ [args.target.name]: args.target.value });
  }
  function next() {
    let valid = true;
    [].slice.call(document.getElementById('tab1').querySelectorAll('[name]'))

```

```

        .forEach((element) => {
            element.form.ej2_instances[0].validate(element.name);
            if (element.getAttribute('aria-invalid') === 'true') {
                valid = false;
            }
        });
        if (!valid) {
            return;
        }
        if (tab) {
            tab.select(1);
        }
    }
    const data = tabdata;
    return (<div id='tab1'>
    <div className="form-row">
        <div className="form-group col-md-6">
            <div className="e-float-input e-control-wrapper">
                <input id="TaskID" name="TaskID" type="text"
disabled={!data.isAdd} value={data.TaskID} onChange={onChange}/>
                <span className="e-float-line"/>
                <label className="e-float-text e-label-top"> Task ID</label>
            </div>
        </div>
    </div>
    <div className="form-row">
        <div className="form-group col-md-6">
            <div className="e-float-input e-control-wrapper">
                <input value={data.TaskName} id="TaskName" name="TaskName"
type="text" onChange={onChange}/>
                <span className="e-float-line"/>
                <label className="e-float-text e-label-top">Task Name</label>
            </div>
        </div>
    </div>
    <div id='footer'>
        <button id="nextBtn" className='e-info e-btn' type="button" style={{
float: "right" }} onClick={next}>Next</button>
    </div>
    </div>);
}
function TabTwoComponent(props) {
    const priorityData = DataUtil.distinct(orderData, 'Priority', true);
    const [tabdata, setTabData] = React.useState(props[0]);
    let treegrid = props[2];
    function onChange(args) {
        setTabData({ [args.target.name]: args.target.value });
    }
    function submit() {
        let valid = true;

        [].slice.call(document.getElementById('tab1').querySelectorAll('[name]'))
            .forEach((element) => {
                element.form.ej2_instances[0].validate(element.name);
                if (element.getAttribute('aria-invalid') === 'true') {
                    valid = false;
                }
            })
    }
}

```

```

    });
    if (!valid) {
        return;
    }
    if (treegrid) {
        treegrid.endEdit();
    }
}
const data = tabdata;
return (<div id='tab2'>
<div className="form-row">
    <div className="form-group col-md-6">
        <NumericTextBoxComponent id="Duration" format='C2'
value={data.Duration} placeholder="Duration" floatLabelType='Always' />
    </div>
</div>
<div className="form-row">
    <div className="form-group col-md-6">
        <DropDownListComponent id="Priority" value={data.Priority}
dataSource={priorityData} fields={{ text: 'Priority', value: 'Priority' }}
placeholder="Priority" popupHeight='300px' floatLabelType='Always' />
    </div>
</div>
<div id='footer'>
    <button id="submitBtn" className="e-info e-btn" type="button" style={{
float: "right" }} onClick={submit}>SUBMIT</button>
</div>
</div>);
}
export default App;
{% endraw %}

```

APP.TSX

```

{% raw %}
import * as React from 'react';
import { DataUtil } from '@syncfusion/ej2-data';
import { projectData } from './datasource';
import { projectData as orderData } from './datasource';
import { SelectingEventArgs } from '@syncfusion/ej2-navigations';
import { DropDownListComponent } from '@syncfusion/ej2-react-dropdowns';
import { NumericTextBoxComponent } from '@syncfusion/ej2-react-inputs';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel, Page, TreeGrid }
from '@syncfusion/ej2-react-treegrid';
import { TabComponent, TabItemDirective, TabItemsDirective } from
 '@syncfusion/ej2-react-navigations';
/* tslint:disable */
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Dialog', template: dialogTemplate };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
    let treegrid: TreeGridComponent | null;
    function dialogTemplate(props: IProjectModel): any {
        const a = [props, treegrid]
    }
}

```

```

    return (<DialogFormTemplate {...a} />);
  }
  return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping= 'TaskID' parentIdMapping='parentID' height={265}
    editSettings={editOptions} toolbar={toolbarOptions}
    ref={g => treegrid = g}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='70'
      textAlign='Right' isPrimaryKey={true}></ColumnDirective>
      <ColumnDirective field='TaskName' headerText='Task Name'
      width='100'></ColumnDirective>
      <ColumnDirective field='StartDate' headerText='Start Date'
      width='100' format='yMd' textAlign='Right'
      editType='datepickeredit'></ColumnDirective>
      <ColumnDirective field='EndDate' headerText='End Date' width='100'
      format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
      <ColumnDirective field='Duration' headerText='Duration' width='90'
      textAlign='Right' />
      <ColumnDirective field='Priority' headerText='Priority' width='90'
      textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar, Page]} />
    </TreeGridComponent>
  );
};
function DialogFormTemplate(props:any) {
  const value = props[0];
  let treegrid = props[1];
  let tab: TabComponent | null;
  function tabOne() {
    const tabOneProp = [value, tab, treegrid];
    return (<TabOneComponent {...tabOneProp} />);
  }
  function tabTwo() {
    const tabTwoProp = [value, tab, treegrid];
    return (<TabTwoComponent {...tabTwoProp} />);
  }
  function next() {
    let valid: boolean = true;
    [].slice.call((document.getElementById('tab1') as HTMLElement)
      .querySelectorAll('[name]')).forEach((element: any) => {
      element.form.ej2_instances[0].validate(element.name);
      if (element.getAttribute('aria-invalid') === 'true'){
        valid = false;
      }
    });
    if (!valid) {
      return false;
    }
    return true;
  }
  function selecting(e: SelectingEventArgs) {
    {
      if(e.isSwiped) {e.cancel = true;}
      if(e.selectingIndex === 1) {e.cancel = !next();}
    }
  }
}

```

```

    }
    return (<div>
      <TabComponent id='defaultTab' ref={(t: any) => tab = t}
        selecting={selecting}>
        <TabItemsDirective>
          <TabItemDirective header= { { 'text': 'Details' } }
            content={tabOne} />
          <TabItemDirective header= { { 'text': 'Verify' } }
            content={tabTwo}/>
        </TabItemsDirective>
      </TabComponent>
    </div>);
  }
  function TabOneComponent(props:any) {
    const [tabdata, setTabData] = React.useState(props[0]);
    let tab = props[1];
    function onChange(args: React.ChangeEvent) {
      setTabData({[(args.target as HTMLInputElement).name]: (args.target as
HTMLInputElement).value});
    }
    function next() {
      let valid: boolean = true;
      [].slice.call((document.getElementById('tab1') as
HTMLElement).querySelectorAll('[name]'))
        .forEach((element: any) => {
          element.form.ej2_instances[0].validate(element.name);
          if (element.getAttribute('aria-invalid') === 'true') {
            valid = false;
          }
        });
      if (!valid) {
        return
      }
      if (tab) {
        tab.select(1);
      }
    }
    const data: IProjectModel = tabdata;
    return (<div id='tab1'>
      <div className="form-row">
        <div className="form-group col-md-6">
          <div className="e-float-input e-control-wrapper">
            <input id="TaskID" name="TaskID" type="text"
disabled={!data.isAdd} value={data.TaskID} onChange={onChange} />
            <span className="e-float-line"/>
            <label className="e-float-text e-label-top"> Task ID</label>
          </div>
        </div>
      </div>
      <div className="form-row">
        <div className="form-group col-md-6">
          <div className="e-float-input e-control-wrapper" >
            <input value={data.TaskName} id="TaskName" name="TaskName"
type="text" onChange={onChange} />
            <span className="e-float-line"/>
            <label className="e-float-text e-label-top">Task Name</label>
          </div>

```

```

        </div>
    </div>
    <div id='footer'>
        <button id="nextBtn" className='e-info e-btn' type="button"
style={{float: "right"}} onClick={next}>Next</button>
    </div>
</div>);
}
function TabTwoComponent(props:any) {
    const priorityData: any = DataUtil.distinct(orderData, 'Priority', true );
    const [tabdata, setTabData] = React.useState(props[0]);
    let treegrid = props[2]
    function onChange(args: React.ChangeEvent) {
        setTabData({[(args.target as HTMLInputElement).name]: (args.target as
HTMLInputElement).value});
    }
    function submit() {
        let valid: boolean = true;
        [].slice.call((document.getElementById('tab1') as
HTMLElement).querySelectorAll('[name]'))
            .forEach((element: any) => {
                element.form.ej2_instances[0].validate(element.name);
                if (element.getAttribute('aria-invalid') === 'true'){
                    valid = false;
                }
            });
        if (!valid) {
            return
        }
        if (treegrid) {
            treegrid.endEdit();
        }
    }
    const data: IProjectModel = tabdata;
    return (<div id='tab2'>
    <div className="form-row">
        <div className="form-group col-md-6">
            <NumericTextBoxComponent id="Duration" format='C2'
value={data.Duration} placeholder="Duration" floatLabelType='Always' />
        </div>
    </div>
    <div className="form-row">
        <div className="form-group col-md-6">
            <DropDownListComponent id="Priority" value={data.Priority}
dataSource={priorityData}
            fields={{text: 'Priority', value: 'Priority' }}
placeholder="Priority"
            popupHeight='300px' floatLabelType='Always' />
        </div>
    </div>
    <div id='footer'>
        <button id="submitBtn" className="e-info e-btn" type="button"
style={{float: "right"}} onClick={submit}>SUBMIT</button>
    </div>
</div>);
}
export interface IProjectModel {

```

```

TaskID?: number;
TaskName?: string;
StartDate?: Date;
EndDate?: Date;
Duration?: number;
Priority?: string;
isAdd?: boolean;
currentTab?: number;
}
export default App;
{% enddraw %}

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),

```

```

        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
                duration: 11,
                progress: 10,
                approved: false,
                subtasks: [
                    { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                    { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },

```



```

        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
    ]
  }
},
{
  taskID: 21,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/28/2017'),
  priority: 'High',
  approved: false,
  duration: 12,
  progress: 60,
  subtasks: [{
    taskID: 22,
    taskName: 'Implementation Module 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'Critical',
    approved: false,
    duration: 12,
    progress: 90,
    subtasks: [
      { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
      { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
      { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
      { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
      { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),

```

```

                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
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2, progress: '0', priority: 'Critical', approved: true },
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2, progress: '0', priority: 'High', approved: false },
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                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
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}

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  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
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  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
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  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
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  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
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  { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
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  { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
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  { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
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DATASOURCE.TSX

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    approved: false,
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      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
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        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ],
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,

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        taskName: 'Implementation Module 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        duration: 11,
        progress: 10,
        approved: false,
        subtasks: [
            { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
            { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
            { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),

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        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            ]
        }
    ]
    }
    ]
}

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        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }
}
]
};
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',

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'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];
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AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAL//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAER//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAMf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Disable editing for particular row cell in React Treegrid component

You can disable the editing for a particular row by using the [actionBegin](#) event of Grid based on **requestType** as **beginEdit**.

In the below demo, the rows which are having the value for *Priority* column as *Breaker* is prevented from editing.

APP.JSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { getValue } from '@syncfusion/ej2-base';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Row' };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];

```



```

    const actionBegin = (args) => {
      if (args.requestType === 'beginEdit') {
        if (getValue('Priority', args.rowData) === "Breaker") {
          args.cancel = true;
        }
      }
    };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='parentID' height={265}
    editSettings={editOptions} actionBegin={actionBegin}
    toolbar={toolbarOptions}>
      <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
        textAlign='Right' isPrimaryKey={true}></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
        width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
        width='100' format='yMd' textAlign='Right'
        editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
        format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Priority' headerText='Priority' width='90'
        textAlign='Right'></ColumnDirective>
      </ColumnsDirective>
      <Inject services={[Edit, Toolbar, Page]}></Inject>
    </TreeGridComponent>);
  }
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from '../datasource';
import { getValue } from '@syncfusion/ej2-base';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel, Page } from
'@syncfusion/ej2-react-treegrid';
import { DialogEditEventArgs } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
  const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Row' };
  const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
  const actionBegin = (args: DialogEditEventArgs): void => {
    if (args.requestType === 'beginEdit') {
      if (getValue('Priority', args.rowData as object) === "Breaker") {
        args.cancel = true;
      }
    }
  }
  return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='parentID' height={265}

```

```

        editSettings={editOptions} actionBegin={actionBegin}
        toolbar={toolbarOptions}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
            textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
            width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
            width='100' format='yMd' textAlign='Right'
            editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='EndDate' headerText='End Date' width='100'
            format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='Priority' headerText='Priority' width='90'
            textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Edit, Toolbar, Page]} />
    </TreeGridComponent>
    );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
            Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
                priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
            Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
                priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
            Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
                priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
            Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
                priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),

```

```

        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
              priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
              priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
              priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
              priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
              priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [

```



```

        { taskID: 15, taskName: 'Development Task 1',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
        3, progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
        startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration:
        3, progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate:
        new Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration:
        2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
        new Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration:
        2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
        meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
        2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
        startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
        0, progress: '50', priority: 'Low', approved: true }
      ]
    },
    {
      taskID: 21,
      taskName: 'Phase 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'High',
      approved: false,
      duration: 12,
      progress: 60,
      subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
          { taskID: 23, taskName: 'Development Task 1',
            startDate: new Date('02/17/2017'),
              endDate: new Date('02/20/2017'), duration:
            4, progress: '50', priority: 'Normal', approved: true },
          { taskID: 24, taskName: 'Development Task 2',
            startDate: new Date('02/17/2017'),
              endDate: new Date('02/20/2017'), duration:
            4, progress: '50', priority: 'Critical', approved: true },
          { taskID: 25, taskName: 'Testing', startDate:
            new Date('02/21/2017'),

```

```

                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            ]
        }
    ]
}

```

```

        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
        0, progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
    Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
    Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
];

```

```

    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let stackedData = [
    {
        orderID: '1',
        orderName: 'Order 1',
        orderDate: new Date('02/03/2017'),
        shippedDate: new Date('02/09/2017'),
        units: '1395',
        unitPrice: '47.00',
        price: 65.95,
        shipMentCategory: 'Seafood',
        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', shipMentCategory:
'Frozen seafood', units: '35',
                orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.56', price: 43.96 },
            { orderID: '1.2', orderName: 'Yellowfin Tuna', shipMentCategory:
'Frozen seafood', units: '324',
                orderDate: new Date('05/03/2017'), shippedDate: new
Date('05/10/2017'), unitPrice: '28.26', price: 91.24 },
            { orderID: '1.3', orderName: 'Herrings', shipMentCategory:
'Frozen seafood', units: '48',
                orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.35', price: 54.48 },
            { orderID: '1.4', orderName: 'Preserved Olives',
shipMentCategory: 'Edible', units: '125',
                orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '29.23', price: 36.75 },
            { orderID: '1.5', orderName: 'Sweet corn Frozen',
shipMentCategory: 'Edible', units: '223',
                orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2017'), unitPrice: '47.17', price: 10.91 }
        ]
    },
    {
        orderID: '2',
        orderName: 'Order 2',
        orderDate: new Date('01/10/2018'),
        shippedDate: new Date('01/16/2018'),
        units: '1944',
        unitPrice: '58.45',
        price: 26.78,
        shipMentCategory: 'Seafood',
        subtasks: [

```

```

        { orderID: '2.1', orderName: 'Tilapias', shipMentCategory:
'Frozen Seafood',
            orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.25', price: 42.45 },
        { orderID: '2.2', orderName: 'White Shrimp', shipMentCategory:
'Frozen seafood', units: '560',
            orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '72.45', price: 36.25 },
        { orderID: '2.3', orderName: 'Fresh Cheese', shipMentCategory:
'Dairy', units: '323', unitPrice: 12.45,
            orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 40.35 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese',
shipMentCategory: 'Dairy', units: '370', unitPrice: 15.36,
            orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 56.82 },
        { orderID: '2.5', orderName: 'Butter', shipMentCategory:
'Dairy', units: '413', unitPrice: '19.35',
            orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 79.55 }
    ]
},
{
    orderID: '3',
    orderName: 'Order 3',
    orderDate: new Date('09/10/2018'),
    shippedDate: new Date('09/20/2018'),
    units: '1120',
    unitPrice: '33.34',
    price: 37.48,
    shipMentCategory: 'Seafood',
    subtasks: [
        { orderID: '3.1', orderName: 'Lead glassware', shipMentCategory:
'Solid crystals',
            orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '46.45', price: 25.79 },
        { orderID: '3.2', orderName: 'Pharmaceutical', shipMentCategory:
'Solid crystals',
            orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.56', price: 37.44 },
        { orderID: '3.3', orderName: 'Glass beads', shipMentCategory:
'Solid crystals', units: '254',
            orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.25', price: 41.25 }
    ]
}
];
export let adventProFont =
'AAEAAAARAQAABAAQRFNJRwAAAAEAAALa8AAAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmaAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAQAACnXAAAAHnbHlmlUxHIQAADyQAAIfEaGVhZPyoXpQAAAEcAAA
ANmhoZWEEK6QfqAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAVoAAADOm1heHAB5QB
RAAABeAAAACBuYWl1vYEFiWAAAlugAAAbGcG9zdL7lSo8AAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAc
AAQAAAAIAg2XnRcRfDz1lAAsD6AAAAADK+KMLAAAAAMttDz//xP81B14DvQAAAAGAAgAAAAAAAA
BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
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```

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aAC0AewARAaYAGgILAD8A0gAaAZMAGgG6ABoB6gAaAboAGgHdABoBvgAaAdoAGgHdABoAawAaAJQ
AGgFpABoBdAaAwkAGgGXABoCwAaAg8ADAIiAE4BsgBCAkAATgHRAE4BvwBOAhkAQQJMAE4AxAA
dALL//gHcAE8BuABOArYATgKKAe4CJQA/AiMATgILAD8CNABOAJEAJQGSAAACNgBKAK8ATgMpAE4
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ALAG/ACQBqgASAr4AEgHhADoB3gAlAeAATgE0AE4AywBOATQATgICAE4A1gBOAbMATgHZAE4B0AB
OAJAANQJMAE4A3gAEAYAGQF+AE4B8gAqAZoALQMgABkBTgBOAZEATgG1AE4A3gAuAd0AJQKfAE4
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RAE4BGABTAVgATgHAAE4BFABOAOAATgKKAe4CJQA/AiUAPwILAD8CJQA/AiUAPwGGAE4CFQBOAJY
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
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    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ],
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
```

```

        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),

```

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        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
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  },
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    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
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      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
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      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
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startDate: new Date('02/17/2017'),
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progress: '50', priority: 'Normal', approved: true },
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startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },

```

```

        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
          endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
      ]
    }
  },
  {
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
      taskID: 30,
      taskName: 'Implementation Module 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'High',
      approved: false,
      duration: 11,
      progress: 60,
      subtasks: [
        { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
          endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
          endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
      ]
    }
  ]
}

```



```

    ]
  }
];
export let projectData: object[] = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
  { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];
export let stackedData: Object[] = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
  }
];

```



```

        unitPrice: '47.00',
        price: 65.95,
        shipMentCategory: 'Seafood',
        subtasks: [
            { orderID: '1.1', orderName: 'Mackerel', shipMentCategory:
'Frozen seafood', units: '35',
                orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.56', price: 43.96},
            { orderID: '1.2', orderName: 'Yellowfin Tuna', shipMentCategory:
'Frozen seafood', units: '324',
                orderDate: new Date('05/03/2017'), shippedDate: new
Date('05/10/2017'), unitPrice: '28.26', price: 91.24 },
            { orderID: '1.3', orderName: 'Herrings', shipMentCategory:
'Frozen seafood', units: '48',
                orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.35', price: 54.48 },
            { orderID: '1.4', orderName: 'Preserved Olives',
shipMentCategory: 'Edible', units: '125',
                orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '29.23', price: 36.75},
            { orderID: '1.5', orderName: 'Sweet corn Frozen',
shipMentCategory: 'Edible', units: '223',
                orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2017'), unitPrice: '47.17', price: 10.91 }
        ]
    },
    {
        orderID: '2',
        orderName: 'Order 2',
        orderDate: new Date('01/10/2018'),
        shippedDate: new Date('01/16/2018'),
        units: '1944',
        unitPrice: '58.45',
        price: 26.78,
        shipMentCategory: 'Seafood',
        subtasks: [
            { orderID: '2.1', orderName: 'Tilapias', shipMentCategory:
'Frozen Seafood',
                orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.25', price: 42.45 },
            { orderID: '2.2', orderName: 'White Shrimp', shipMentCategory:
'Frozen seafood', units: '560',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '72.45', price: 36.25 },
            { orderID: '2.3', orderName: 'Fresh Cheese', shipMentCategory:
'Dairy', units: '323', unitPrice: 12.45,
                orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 40.35 },
            { orderID: '2.4', orderName: 'Blue Veined Cheese',
shipMentCategory: 'Dairy', units: '370', unitPrice: 15.36,
                orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 56.82 },
            { orderID: '2.5', orderName: 'Butter', shipMentCategory:
'Dairy', units: '413', unitPrice: '19.35',
                orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 79.55}
        ]
    }
]

```

```

    },
    {
        orderID: '3',
        orderName: 'Order 3',
        orderDate: new Date('09/10/2018'),
        shippedDate: new Date('09/20/2018'),
        units: '1120',
        unitPrice: '33.34',
        price: 37.48,
        shipMentCategory: 'Seafood',
        subtasks: [
            { orderID: '3.1', orderName: 'Lead glassware', shipMentCategory:
'Solid crystals',
                orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '46.45', price: 25.79 },
            { orderID: '3.2', orderName: 'Pharmaceutical', shipMentCategory:
'Solid crystals',
                orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.56', price: 37.44 },
            { orderID: '3.3', orderName: 'Glass beads', shipMentCategory:
'Solid crystals', units: '254',
                orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.25', price: 41.25 }
        ]
    }
];
export let adventProFont: string =
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Y/+0AXP/dAJ//7wCg/+8Aof/vAKL/7wCo/+sAqf/rAKr/6wCr/+sArP/rAK7/6wCv/+0AsP/tALH

```
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/2wC1/9sBHV/gAAMAD//BABH/sAA3//QALgAP/5MAEP+wABH/hQAd/7IAHv+sACT/pgBE/6oArv+  
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Al/+qAJj/qgCZ/6oAmv+qAJv/qgCc/6oAnf+qAJ7/owCf/7IAoP+yAKH/sgCi/7IAqP+xAKn/sQC  
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AUv/1AFP/xgB3/9gAeP/YAHn/2AB6/9gAe//YAHZ/2ACX/+IAMP/iAJn/4gCa/+IAM//iAJz/4gC  
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AEf/mAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wC  
d//sAn//AKD//wCh//8Aov//AKP/6wCk/+sApf/rAKb/6wCo//8Aqf//AKr//wCr//8ArP//AK7  
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AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr//QBT//QAV//  
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/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9KAU//WAFn/3gBb/+IACQA  
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c  
AEf/GAEr//ABZ//YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/  
YAEt/4gBS//UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAMf/iAJr/4gCb/+I  
AnP/iAJ3/4gCo//UAqf/lAKr/5QCr/+YArP/lAK7/5QD//+UAAQEuABYAAQF0/6EAAwBW/7YAV//  
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Display null values at bottom in React Treegrid component

By default the null values are displayed at bottom of the TreeGrid row while perform sorting in ascending order. As well as this values are displayed at top of the TreeGrid row while perform sorting with descending order. But you can customize this default order to display the null values at always bottom row of the TreeGrid by using [column.sortComparer](#) method.

In the below demo we have displayed the null date values at bottom of the Grid row while sorting the **StartDate** column in both ways.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject, Sort }
  from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
  const [action, setAction] = React.useState('');
  const sortComparer = (reference, comparer) => {
    const sortAsc = action === "Ascending" ? true : false;
    if (sortAsc && reference === null) {
      return -1;
    }
    else if (sortAsc && comparer === null) {
      return 1;
    }
    else if (!sortAsc && reference === null) {
      return -1;
    }
    else if (!sortAsc && comparer === null) {
      return 1;
    }
    else {
      return reference - comparer;
    }
  };
  const actionBegin = (args) => {
    if (args.requestType === "sorting") {
      setAction(args.direction);
    }
  };
  return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
      idMapping='TaskID' parentIdMapping='parentID' allowSorting={true}
      actionBegin={actionBegin}>
      <ColumnsDirective>
        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
          textAlign='Right' isPrimaryKey={true}></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
          width='70'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
          width='70' sortComparer={sortComparer} format='yMd' textAlign='Right'
          editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='70'
          format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Duration' headerText='Duration' width='90'
          textAlign='Right'></ColumnDirective>
      </ColumnsDirective>
    </TreeGridComponent>
  );
}
```

```

        <ColumnDirective field='Priority' headerText='Priority' width='90'
        textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Sort]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject, Sort }
    from '@syncfusion/ej2-react-treegrid';
import { SortEventArgs } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    const [action, setAction] = React.useState('');
    const sortComparer = (reference: any, comparer: any) => {
        const sortAsc = action === "Ascending" ? true : false;
        if (sortAsc && reference === null) {
            return -1;
        } else if (sortAsc && comparer === null) {
            return 1;
        } else if (!sortAsc && reference === null) {
            return -1;
        } else if (!sortAsc && comparer === null) {
            return 1;
        } else {
            return reference - comparer;
        }
    };
    const actionBegin = (args: any): void => {
        if (args.requestType === "sorting") {
            setAction(args.direction);
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
        idMapping= 'TaskID' parentIdMapping='parentID'
        allowSorting={true} actionBegin={actionBegin}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
                textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
                width='70'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
                width='70' sortComparer={sortComparer} format='yMd' textAlign='Right'
                editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='EndDate' headerText='End Date' width='70'
                format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
                textAlign='Right' />
                <ColumnDirective field='Priority' headerText='Priority' width='90'
                textAlign='Right' />
            </ColumnsDirective>
        </TreeGridComponent>
    );
}

```

```

</ColumnsDirective>
<Inject services={[Sort]} />
</TreeGridComponent>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
    ]
  }
]

```

```

        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
              { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),

```

```

                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ]
}

```

```

        }],
        {
            taskID: 29,
            taskName: 'Phase 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            approved: false,
            duration: 11,
            progress: 30,
            subtasks: [{
                taskID: 30,
                taskName: 'Implementation Module 3',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                duration: 11,
                progress: 60,
                subtasks: [
                    { taskID: 31, taskName: 'Development Task 1',
                        startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
                        3, progress: '50', priority: 'Low', approved: true },
                    { taskID: 32, taskName: 'Development Task 2',
                        startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
                        3, progress: '50', priority: 'Normal', approved: false },
                    { taskID: 33, taskName: 'Testing', startDate:
                        new Date('02/20/2017'),
                        endDate: new Date('02/21/2017'), duration:
                        2, progress: '0', priority: 'Critical', approved: true },
                    { taskID: 34, taskName: 'Bug fix', startDate:
                        new Date('02/24/2017'),
                        endDate: new Date('02/25/2017'), duration:
                        2, progress: '0', priority: 'High', approved: false },
                    { taskID: 35, taskName: 'Customer review
                        meeting', startDate: new Date('02/26/2017'),
                        endDate: new Date('02/27/2017'), duration:
                        2, progress: '0', priority: 'Normal', approved: true },
                    { taskID: 36, taskName: 'Phase 3 complete',
                        startDate: new Date('02/27/2017'),
                        endDate: new Date('02/27/2017'), duration:
                        0, progress: '50', priority: 'Critical', approved: false },
                ]
            }]
        }
    ]
}

];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',

```

```

        'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
        'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
```

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        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
              priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
              priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
              priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
              priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
              priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [

```

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        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),

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        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            ]
        }
    ]
    }
    ]
}

```

```

        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
        progress: '50', priority: 'Critical', approved: false },
    ]
    }
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
    Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
    Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': null,
    'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
    Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
    Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
    Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];

```

```
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```
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uAXX/oQABAAAACgAiACIAAkRGTFQADmxhG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Restrict decimal points while treegrid editing in React Treegrid component

By default, the number of decimal places will be restricted to two in the NumericTextBox while editing the numeric column. We can restrict to type the decimal points in a NumericTextBox by using the **validateDecimalOnType** and **decimals** properties of NumericTextBox.

In the below demo, while editing the row we have restricted to type the decimal point value in the NumericTextBox of **Progress** column.

APP.JSX

```
import * as React from 'react';
import { stackedData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const editOptions = { allowEditing: true, allowAdding: true,
allowDeleting: true, mode: 'Row' };
    const toolbarOptions = ['Add', 'Edit', 'Delete'];
    let treegrid;
    const numericParams = {
        params: {
            decimals: 0,
            format: "N",
            validateDecimalOnType: true
        }
    };
};
```

```

    return (<TreeGridComponent dataSource={stackedData} treeColumnIndex={1}
childMapping='subtasks' editSettings={editOptions} toolbar={toolbarOptions}
height={265} ref={g => treegrid = g}>
    <ColumnsDirective>
        <ColumnDirective field='orderID' headerText='Order ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
        <ColumnDirective field='orderName' headerText='Order Name'
width='100'></ColumnDirective>
        <ColumnDirective field='orderDate' headerText='Order Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='price' headerText='price'
edit={numericParams} editType='numericedit' width='90' format='c2'
textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar, Page]}></Inject>
</TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { stackedData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, ToolbarItems, EditSettingsModel, Page, TreeGrid }
from '@syncfusion/ej2-react-treegrid';
import { IEditCell } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    const editOptions: EditSettingsModel = { allowEditing: true, allowAdding:
true, allowDeleting: true, mode: 'Row' };
    const toolbarOptions: ToolbarItems[] = ['Add', 'Edit', 'Delete'];
    let treegrid: TreeGrid | null;
    const numericParams: IEditCell = {
        params: {
            decimals: 0,
            format: "N",
            validateDecimalOnType: true
        }
    };
    return (
        <TreeGridComponent dataSource={stackedData} treeColumnIndex={1}
childMapping='subtasks'
editSettings={editOptions} toolbar={toolbarOptions} height={265}
ref={g => treegrid = g}>
            <ColumnsDirective>
                <ColumnDirective field='orderID' headerText='Order ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='orderName' headerText='Order Name'
width='100'></ColumnDirective>
                <ColumnDirective field='orderDate' headerText='Order Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
            </ColumnsDirective>
        </TreeGridComponent>
    );
}

```

```

        <ColumnDirective field='price' headerText='price' edit=
{numericParams} editType= 'numericedit' width='90' format='c2'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar, Page]} />
    </TreeGridComponent>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },

```

```

        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),

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                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            ]
        }
    ]
}

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        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}
]
];
export let projectData = [

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    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}

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];
export let stackedData = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.00',
    price: 65.95,
    shipMentCategory: 'Seafood',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', shipMentCategory:
'Frozen seafood', units: '35',
        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.56', price: 43.96 },
      { orderID: '1.2', orderName: 'Yellowfin Tuna', shipMentCategory:
'Frozen seafood', units: '324',
        orderDate: new Date('05/03/2017'), shippedDate: new
Date('05/10/2017'), unitPrice: '28.26', price: 91.24 },
      { orderID: '1.3', orderName: 'Herrings', shipMentCategory:
'Frozen seafood', units: '48',
        orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.35', price: 54.48 },
      { orderID: '1.4', orderName: 'Preserved Olives',
shipMentCategory: 'Edible', units: '125',
        orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '29.23', price: 36.75 },
      { orderID: '1.5', orderName: 'Sweet corn Frozen',
shipMentCategory: 'Edible', units: '223',
        orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2017'), unitPrice: '47.17', price: 10.91 }
    ]
  },
  {
    orderID: '2',
    orderName: 'Order 2',
    orderDate: new Date('01/10/2018'),
    shippedDate: new Date('01/16/2018'),
    units: '1944',
    unitPrice: '58.45',
    price: 26.78,
    shipMentCategory: 'Seafood',
    subtasks: [
      { orderID: '2.1', orderName: 'Tilapias', shipMentCategory:
'Frozen Seafood',
        orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.25', price: 42.45 },
      { orderID: '2.2', orderName: 'White Shrimp', shipMentCategory:
'Frozen seafood', units: '560',
        orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '72.45', price: 36.25 },
      { orderID: '2.3', orderName: 'Fresh Cheese', shipMentCategory:
'Dairy', units: '323', unitPrice: 12.45,
        orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 40.35 },
    ]
  }
];

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    { orderID: '2.4', orderName: 'Blue Veined Cheese',
      shipMentCategory: 'Dairy', units: '370', unitPrice: 15.36,
        orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 56.82 },
    { orderID: '2.5', orderName: 'Butter', shipMentCategory:
'Dairy', units: '413', unitPrice: '19.35',
        orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 79.55 }
  ],
},
{
  orderID: '3',
  orderName: 'Order 3',
  orderDate: new Date('09/10/2018'),
  shippedDate: new Date('09/20/2018'),
  units: '1120',
  unitPrice: '33.34',
  price: 37.48,
  shipMentCategory: 'Seafood',
  subtasks: [
    { orderID: '3.1', orderName: 'Lead glassware', shipMentCategory:
'Solid crystals',
        orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '46.45', price: 25.79 },
    { orderID: '3.2', orderName: 'Pharmaceutical', shipMentCategory:
'Solid crystals',
        orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.56', price: 37.44 },
    { orderID: '3.3', orderName: 'Glass beads', shipMentCategory:
'Solid crystals', units: '254',
        orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.25', price: 41.25 }
  ]
}
];
export let adventProFont =
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jAEj/sgBL//YAUv+xAFX/oQBW/5EAWP+5AFr/twBc/7YAd/+mAHj/pgB5/6YAev+mAHv/pgB8/6Y
Al/+qAJj/qgCZ/6oAmv+qAJv/qgCc/6oAnf+qAJ7/owCf/7IAoP+yAKH/sgCi/7IAqP+xAKn/sQC
q/7EAq/+xAKz/sQCu/7EAR/+5ALD/uQCx/7kAsv+5ALX/tgD+/7EACQAP/60Aef+bACT/vAB3/7w
AeP+8AHn/vAB6/7wAe/+8AHZ/vAAXAA//gQAQ/7oAef90AB3/uwAe/6sAJP+OACr/yAAy/98ARP+
pAEj/uwBM//MAUv+4AFX/2wBY/98AXP/kAHf/jgB4/44Aef+OAHr/jgB7/44AfP+OAJf/qQCY/6k
Amf+pAJr/qQCb/6kAnP+pAJ3/qQCf/7sAoP+7AKH/uwCi/7sAo//zAKT/8wC1//MAPv/zAKj/uAC
p/7gAqv+4AKv/uACs/7gArv+4AK//3wCw/98Asf/fALL/3wC1//QA4//zAP7/uAAXAA//mwAQ/8c
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d/+IAqP/lAKn/5QCq//UAq//lAKz/5QCu//UA/v/lAAGAD//FABH/tABF/8wAT//LAFH//QBZ/9Q
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c/74Anf++AJ//1wCg/9cAof/XAKL/1wCo/8UAqf/FAKr/xQCr/8UARP/FAK7/xQD+/8UBdf/6ACA
AEf/mAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wC
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OAFn/wwBc/8AAR//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ/+YAWv/iAFv
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AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QC
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GAej/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv
/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAR/OAAL//YAJv/GACr/xgAy/9oANP/XAdf/rAA
4/74AOf+yADr/qAA8/5UARP/mAEb/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn
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AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
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R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAhr/2AB7/9gAfP/YAJf/4gCY/+IAMf/iAJr/4gCb/+I

```
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
        priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
        priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
        priority: 'Low', approved: true },
    ]
  }
]
```



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        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
              { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
              { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),

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        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
    ]
    }]
},
{
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
        ]
    }]
},
{
    taskID: 29,

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        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
                progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate: new
                Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
                progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate: new
                Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
                progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review meeting',
                startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
                progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
                progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}

];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
    Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },

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    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
  ];
export let stackedData: Object[] = [
  {
    orderID: '1',
    orderName: 'Order 1',
    orderDate: new Date('02/03/2017'),
    shippedDate: new Date('02/09/2017'),
    units: '1395',
    unitPrice: '47.00',
    price: 65.95,
    shipMentCategory: 'Seafood',
    subtasks: [
      { orderID: '1.1', orderName: 'Mackerel', shipMentCategory:
'Frozen seafood', units: '35',
        orderDate: new Date('03/03/2017'), shippedDate: new
Date('03/10/2017'), unitPrice: '12.56', price: 43.96},
      { orderID: '1.2', orderName: 'Yellowfin Tuna', shipMentCategory:
'Frozen seafood', units: '324',
        orderDate: new Date('05/03/2017'), shippedDate: new
Date('05/10/2017'), unitPrice: '28.26', price: 91.24 },
    ]
  }
];

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        { orderID: '1.3', orderName: 'Herrings', shipMentCategory:
'Frozen seafood', units: '48',
          orderDate: new Date('05/08/2017'), shippedDate: new
Date('05/15/2017'), unitPrice: '11.35', price: 54.48 },
        { orderID: '1.4', orderName: 'Preserved Olives',
shipMentCategory: 'Edible', units: '125',
          orderDate: new Date('06/10/2017'), shippedDate: new
Date('06/17/2017'), unitPrice: '29.23', price: 36.75},
        { orderID: '1.5', orderName: 'Sweet corn Frozen',
shipMentCategory: 'Edible', units: '223',
          orderDate: new Date('07/12/2017'), shippedDate: new
Date('07/19/2017'), unitPrice: '47.17', price: 10.91 }
      ]
    },
    {
      orderID: '2',
      orderName: 'Order 2',
      orderDate: new Date('01/10/2018'),
      shippedDate: new Date('01/16/2018'),
      units: '1944',
      unitPrice: '58.45',
      price: 26.78,
      shipMentCategory: 'Seafood',
      subtasks: [
        { orderID: '2.1', orderName: 'Tilapias', shipMentCategory:
'Frozen Seafood',
          orderDate: new Date('02/05/2018'), shippedDate: new
Date('02/12/2018'), units: '278', unitPrice: '15.25', price: 42.45 },
        { orderID: '2.2', orderName: 'White Shrimp', shipMentCategory:
'Frozen seafood', units: '560',
          orderDate: new Date('05/22/2018'), shippedDate: new
Date('05/29/2018'), unitPrice: '72.45', price: 36.25 },
        { orderID: '2.3', orderName: 'Fresh Cheese', shipMentCategory:
'Dairy', units: '323', unitPrice: 12.45,
          orderDate: new Date('06/08/2018'), shippedDate: new
Date('06/15/2018'), price: 40.35 },
        { orderID: '2.4', orderName: 'Blue Veined Cheese',
shipMentCategory: 'Dairy', units: '370', unitPrice: 15.36,
          orderDate: new Date('07/10/2018'), shippedDate: new
Date('07/17/2018'), price: 56.82 },
        { orderID: '2.5', orderName: 'Butter', shipMentCategory:
'Dairy', units: '413', unitPrice: '19.35',
          orderDate: new Date('09/18/2018'), shippedDate: new
Date('09/25/2018'), price: 79.55}
      ]
    },
    {
      orderID: '3',
      orderName: 'Order 3',
      orderDate: new Date('09/10/2018'),
      shippedDate: new Date('09/20/2018'),
      units: '1120',
      unitPrice: '33.34',
      price: 37.48,
      shipMentCategory: 'Seafood',
      subtasks: [

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        { orderID: '3.1', orderName: 'Lead glassware', shipMentCategory:
'Solid crystals',
          orderDate: new Date('02/07/2018'), shippedDate: new
Date('02/14/2018'), units: '542', unitPrice: '46.45', price: 25.79 },
        { orderID: '3.2', orderName: 'Pharmaceutical', shipMentCategory:
'Solid crystals',
          orderDate: new Date('04/19/2018'), shippedDate: new
Date('04/26/2018'), units: '324', unitPrice: '11.56', price: 37.44 },
        { orderID: '3.3', orderName: 'Glass beads', shipMentCategory:
'Solid crystals', units: '254',
          orderDate: new Date('05/22/2018'), shippedDate: new
Date('03/22/2018'), unitPrice: '16.25', price: 41.25 }
      ]
    }
  ];
export let adventProFont: string =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAp4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmAAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAQAACnXAAAAhnbHlmlUxHIQAADyQAAIfEaGvHzPYoXpQAAAEcAAA
ANmhoZWEK6QfqaABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAAADOm1heHAB5QB
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AAQAAAAAIag2XnRcRfDzzlAAsD6AAAAADK+KMLAAAAAMttDz//xP8lB14DvQAAAAgAAgAAAAAAAA
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APgA/AEAAQBBCAEMARABFAEYARwBIAEKASgBLAEwATQBOAE8AUABRAFIUwBUAFUAVgBXAFgAWQB
aAFsAXABdAF4AXwBgAGEAowCEAIUAvQCWAIYAjgCLAJ0AqQECAIoA2gCDAJMAjQCXAIGa3gCqAKI
ArQDJAMcArgBiAGMAkABkAMsAZQDIAMoAzwDMAM0AzgDpAGYA0wDQANeArwBnAPAAkQDWANQA1QB
oAOSa7QCJAGoAaQBrAG0AbABuAKAAbwBxAHAACgBzAHUAdAB2AHcAeAB6AHkAewB9AHwAuAChAH8
AfgCAAIEA7ADuALoBAwEEAQUBBgEHAQgA/QD+AQkBCgELAQwA/wEAAQ0BDgEPAQEBEAERARIBEW
UARUFgEXARgBGQD4APkBGgEbARwBHQGEAR8BIAEHASIBIwEkASUBJgEnAPoAlwEoASkBKgErASw
BLQEuAS8BMAExATIA4gDjATMBNAE1ATYBNwE4ATkBoGE7ATwBPQE+ALAAEQE/AUABQQFCAUMBRAF
FAUYBRwFIAPwA5AD1AUkBSgFLAUwBTQFOAU8BUAFRAVIBUwFUAVUBVgFXAVgBWQFaALsBWwFCAV0
BXgDmAOCBXwFgANgA4QDbaNwA3QDgANkA3wFhAWIBYwFkAWUBZgFnAWgBaQFqAWsBbAftAW4BbwF
wAXEBcgFzAXQBdQF2AXcBeAF5AXOBewF8AX0BfgF/AYABgQGCAYMBhAGFAYYBhwGIAYkBigGLAYw
BjQGOAY8BkAGRAZIBkwGUAZUBlgCbAZcBmAGZAZoBmwGcAZ0BngGfAaABOQGiAaMBpAC2ALcAxAC
0ALUAxQCHAKsAxgC+AL8AvAGlAIwAnwCoAaYBpwGoAakBqgGrAawBrQGuAa8BsAGxAbIBswG0AbU
BtgG3AbgBuQG6AbsBvAG9B3VuaTAWQUHQHw1hY3JvbgdhhbWFjcm9uBkFicmV2ZQZhhYnJldmUHQW9
nb251awdhb2dvbmVrC0NjaXJjdW1mbGV4C2NjaXJjdW1mbGV4CkNkb3RhY2N1bnQKY2RvdGFjY2V

1663

```
pAEj/uwBM//MAUv+4AFX/2wBY/98AXP/kAHf/jgB4/44Aef+OAHr/jgB7/44AfP+OAJf/qQCY/6k
Amf+pAJr/qQCb/6kAnP+pAJ3/qQcf/7sAoP+7AKH/uwCi/7sAo//zAKT/8wC1//MAPv/zAKj/uAC
p/7gAqv+4AKv/uACs/7gArv+4AK//3wCw/98Asf/fALL/3wC1/+QA4//zAP7/uAAXAA//mwAQ/8c
AEf+PAB3/yAAe/74AJP+oADL/5gBE/7sASP/RAEv/6ABM//AAUv/GAFX/7gBY/+AAXP/SAHf/qAB
4/6gAef+oAHr/qAB7/6gAfP+oAJf/uwCY/7sAmf+7AJr/uwCb/7sAnP+7AJ3/uwCf/9EAoP/RAKH
/0QCi/9EAo//wAKT/8AC1//AApv/wAKj/xgCp/8YAqv/GAKv/xgCs/8YArv/GAK//4ACw/+AAsf/
gALL/4AC1/9IA4//wAP7/xgACADz/6gEe/+oAHQAP/8sAEP/SABH/vAAd/9cAHv/eACT/2AAy/9g
AUv/lAFP/xgB3/9gAeP/YAHn/2AB6/9gAe//YAHz/2ACX/+IAmP/iAJn/4gCa/+IAm//iAJz/4gC
d/+IAqP/lAKn/5QCq/+UAq//lAKz/5QCu/+UA/v/lAAGAD//FABH/tABF/8wAT//LAFH//QBZ/9Q
AXP/XALX/1wAHABH/6QBH//AAS//eAE7/3wBP/98AXP/oALX/6AAGAEf/+QBIAAYAnwAGAKAABgC
hAAYAogAGACgABf//AAR/xgAP/7AAEf+kAET/rgBF//cArv/qAEf/6gBI/80ASf/tAer/7QBL//Q
ATP/wAE//6wBQ//QAUF/3AFL/xQBT/+oAVP/tAFX/9ABd/+oAl//+AJj/vgCZ/74Amv++AJv/vgC
c/74Anf++AJ//1wCg/9cAof/XAKL/1wCo/8UAqf/FAKr/xQCr/8UArP/FAK7/xQD+/8UBdf/6ACA
AEf/mAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wC
d//sAn//AKD//wCh//8Aov//AKP/6wCk/+sApf/rAKb/6wCo//8Aqf//AKr//wCr//8ArP//AK7
//wC1//EA4//rAP7//wAGAE7/8ABY//AAR//wALD/8ACx//AAsv/wABAASP/pAE//9gBS/90AXP/
PAJ//6QCg/+kAof/pAKL/6QCo/90Aqf/dAKr/3QCr/90ArP/dAK7/3QC1/88A/v/dAAoARP/wAFD
/8ABa/+gAl//wAJj/8ACZ//AAmv/wAJv/8ACc//AAnf/wAAMAUf/9AFz/2QC1/9kACQBS/+0AWP/
OAFn/wwBc/8AAR//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ/+YAWv/iAFv
/5wBc//IAtf/yAAQAD/+9ABH/rABc/9YAtf/WADQAD/9rABD/tgAR/14AHf+3AB7/nQBE/5sArv/
LAEf/1ABI/9EASv/PAEz/5QBO/9kAT//bAFD/2wBR/9sAUv/CAFP/2QBU/80AVf/fAFb/ywBX/+8
AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QC
j/+UAP/1AKX/5Qcm/+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAR//5ALD/+QCx//kAsv/5ALX
/6QDj/+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf+KAET/xwBF//oASP/cAJf/xwC
Y/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEGAP/5oAEf+OAEt/zABH//0
ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AA
GAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv
/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAR/OAAL//YAJv/GACr/xgAy/9oANP/XADf/rAA
4/74AOf+YADr/qAA8/5UARP/mAEB/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn
/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8ACH//AAov/
wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58
AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAL//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UArP/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Exporting filtered data in React Treegrid component

You can export the filtered data by defining the resulted data in [PdfExportProperties.dataSource](#) before export.

In the below Pdf exporting demo, We have gotten the filtered data from the filteredResult of TreeGrid filterModule and then defines the resulted data in [PdfExportProperties.dataSource](#) and pass it to [pdfExport](#) method.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
```

```

import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Filter, Toolbar, Page, PdfExport } from '@syncfusion/ej2-react-
treegrid';
/* tslint:disable */
function App() {
  const toolbarOptions = ['PdfExport'];
  let treegrid;
  const pageOptions = { pageSize: 5, pageCount: 5 };
  const toolbarClick = (args) => {
    if (treegrid && args.item.text === 'PDF Export') {
      // get all filtered records
      let pdfdata = [];
      pdfdata = treegrid.filterModule.filteredResult;
      const exportProperties = {
        dataSource: pdfdata,
      };
      if (treegrid) {
        treegrid.pdfExport(exportProperties);
      }
    }
  };
  return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' pageSettings={pageOptions}
toolbarClick={toolbarClick} toolbar={toolbarOptions} allowPaging={true}
ref={g => treegrid = g} allowFiltering={true} allowPdfExport={true}>
    <ColumnsDirective>
      <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
      <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
      <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
      <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
      <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
      <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services={[Filter, Toolbar, Page, PdfExport]}></>
  </TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from '../datasource';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { PdfExportProperties } from '@syncfusion/ej2-react-grids';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';

```

```

import { Filter, Toolbar, ToolbarItems, Page, TreeGrid, PdfExport,
PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport'];
    let treegrid: TreeGridComponent | null;
    const pageOptions: PageSettingsModel = {pageSize:5, pageCount:5};
    const toolbarClick = (args: ClickEventArgs) => {
        if (treegrid && args.item.text === 'PDF Export') {
            // get all filtered records
            let pdfdata: object[] = [];
            pdfdata = (treegrid as
TreeGridComponent).filterModule.filteredResult;
            const exportProperties: PdfExportProperties = {
                dataSource: pdfdata,
            };
            if (treegrid) {
                (treegrid as TreeGridComponent).pdfExport(exportProperties);
            }
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' pageSettings={pageOptions}
toolbarClick={toolbarClick} toolbar={toolbarOptions}
allowPaging={true}
        ref={g => treegrid = g} allowFiltering={true} allowPdfExport={true}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Filter, Toolbar, Page, PdfExport]} />
        </TreeGridComponent>
    );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
    }
];

```



```

        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,

```

```

        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
                    ]
                }
            ]
        },
        {
            taskID: 21,
            taskName: 'Phase 2',

```



```

        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ],
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),

```

```

        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
            { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
        ]
    }
}

];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
      'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
      'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',

```

```

      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
      'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
    },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
    },
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
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    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
    ]
  }
]
```

```

        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
              { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),

```

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        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
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  }
},
{
  taskID: 21,
  taskName: 'Phase 2',
  startDate: new Date('02/17/2017'),
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  priority: 'High',
  approved: false,
  duration: 12,
  progress: 60,
  subtasks: [{
    taskID: 22,
    taskName: 'Implementation Module 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'Critical',
    approved: false,
    duration: 12,
    progress: 90,
    subtasks: [
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startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
      { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
      { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
      { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
      { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
      { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
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  }
]

```

```

        ]]
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    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
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        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
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            startDate: new Date('02/17/2017'),
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                    progress: '0', priority: 'Normal', approved: true },
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                    startDate: new Date('02/27/2017'),
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                    progress: '50', priority: 'Critical', approved: false },
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}
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export let projectData: object[] = [
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YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAhr/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/lAKr/5QCr/+UARp/lAK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTfQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Exporting selected data in React Treegrid component

You can export the selected records data by passing it to [PdfExportProperties.dataSource](#) or [ExcelExportProperties.dataSource](#) property in the [toolbarClick](#) event.

In the below exporting demo, we can get the selected records using [getSelectedRecords](#) method and pass the selected data to [pdfExport](#) or [excelExport](#) methods using respective export properties..

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Toolbar, Page, PdfExport, ExcelExport } from '@syncfusion/ej2-
react-treegrid';
/* tslint:disable */
function App() {
  const toolbarOptions = ['PdfExport', 'ExcelExport'];
  let treegrid;
  const pageOptions = { pageSize: 5, pageCount: 5 };
  const selectionOptions = { type: 'Multiple' };
  const toolbarClick = (args) => {
    if (treegrid && args.item.text === 'PDF Export') {
      const selectedRecords = treegrid.getSelectedRecords();
      const exportProperties = {
        dataSource: selectedRecords,
      };
      treegrid.current.pdfExport(exportProperties);
    }
    else if (treegrid && args.item.text === 'Excel Export') {
      const selectedRecords = treegrid.getSelectedRecords();
      const exportProperties = {
        dataSource: selectedRecords,
      };
      treegrid.excelExport(exportProperties);
    }
  };
  return (
    <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='parentID' pageSettings={pageOptions}
    toolbarClick={toolbarClick} toolbar={toolbarOptions} allowPaging={true}
    ref={g => treegrid = g} allowPdfExport={true} allowExcelExport={true}
    selectionSettings={selectionOptions}>
      <ColumnsDirective>
```

```

        <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>
        <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right'></ColumnDirective>
        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right'></ColumnDirective>
    </ColumnsDirective>
    <Inject services=[{Toolbar, Page, PdfExport, ExcelExport}]/>
    </TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from '../datasource';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { PdfExportProperties, ExcelExportProperties } from '@syncfusion/ej2-react-grids';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject,
SelectionSettingsModel } from '@syncfusion/ej2-react-treegrid';
import { Toolbar, ToolbarItems, Page, TreeGrid, PdfExport, ExcelExport,
PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport', 'ExcelExport'];
    let treegrid: TreeGridComponent | null;
    const pageOptions: PageSettingsModel = {pageSize:5, pageCount:5};
    const selectionOptions: SelectionSettingsModel = {type: 'Multiple'};
    const toolbarClick = (args: ClickEventArgs) => {
        if (treegrid && args.item.text === 'PDF Export') {
            const selectedRecords = treegrid.getSelectedRecords();
            const exportProperties: PdfExportProperties = {
                dataSource: selectedRecords,
            };
            (treegrid.current as any).pdfExport(exportProperties);
        } else if (treegrid && args.item.text === 'Excel Export') {
            const selectedRecords = treegrid.getSelectedRecords();
            const exportProperties: ExcelExportProperties = {
                dataSource: selectedRecords,
            };
            treegrid.excelExport(exportProperties);
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' pageSettings={pageOptions}

```

```

        toolbarClick={toolbarClick} toolbar={toolbarOptions}
        allowPaging={true}
        ref={g => treegrid = g} allowPdfExport={true} allowExcelExport={true}
        selectionSettings={selectionOptions}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
            textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
            width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
            width='100' format='yMd' textAlign='Right'
            editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='EndDate' headerText='End Date' width='100'
            format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='Duration' headerText='Duration' width='90'
            textAlign='Right' />
            <ColumnDirective field='Priority' headerText='Priority' width='90'
            textAlign='Right' />
        </ColumnsDirective>
        <Inject services={[Toolbar, Page, PdfExport, ExcelExport]} />
    </TreeGridComponent>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
            Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
            priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
            Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
            priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
            Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
            priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
            Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
            priority: 'Low', approved: true }
        ]
    },
];

```

```

{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
            endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
            endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
            endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
            endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
            endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ],
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
            }
            ]
        }
    ]
}

```

```

        duration: 11,
        progress: 10,
        approved: false,
        subtasks: [
            { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
            { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
            { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
            { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
        ]
    }
},
{
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),

```

```

        endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
    ]
  }
},
{
  taskID: 29,
  taskName: 'Phase 3',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,
  duration: 11,
  progress: 30,
  subtasks: [{
    taskID: 30,
    taskName: 'Implementation Module 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    duration: 11,
    progress: 60,
    subtasks: [
      { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
      { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
      { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
      { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
    ]
  }
]
}
]
}

```

```

        { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
      ]
    }
  }
]
];
export let projectData = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
  { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
  { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
];

```



```

    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAp4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjmAAC2mAAAACRPuY8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADdmdhc3AAAAQAACnXAAAAhnbHlmlUxHIQAADyQAAIfEaGvHzPYoXpQAAAEcAAA
ANmhoZWEEK6QfqAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAADOMlheHAB5QB
RAAABeAAAACBuYW1lvYEFiWAAAlugAAABGcG9zdL7lSo8AAAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAC
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AIEoAAAAAAAAAAEFEQkUAAAAg+wQDxP8YAAADWgDoAAAAmwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
BTQAAARYAAADWAE4BqgBzAmUAIgIcACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAIaKUAEQG
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ALAG/ACQBqgASAr4AEgHhADoB3gAlAEATgE0AE4AywBOATQATgICAE4AlgBOAbMATgHZAE4B0AB
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BmgBMAgIABAHUAE8CDwAMAg8ADAIpAAwCDwAMAg8ADAIpAAwDLgBOAbIAQgHRAE4B0QBOAdEATgH
RAE4BGABTAVgATgHAAE4BFABOAOAATgKKAIE4CJQA/AiUAPwILAD8CJQA/AiUAPwGGAE4CFQBOAJY
ASgI2AEoCNgBKAJYASgIsADwB6gBOAgAATgHyAE4B8gBOAfIATgHyAE4B8gBOAfIATgMuAE4BfwA
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CJgAfAEaATgImAB8B4ABOAIYAHwHgAE4CMQALAA8AJAGTAC4BiwAuAVMALgA/AAQByv/+AX8ATAG
7AE4Bxf/+AUAYTgJqAE4CZgBOAsATgGCAE4CigBOAs8ATgLRAE4A+wAPAhSADAIiAE4BvwBOAhE
ADAG/AE4CWABOAKAAUIVAE4BKwBQAF4ATgIVAawCtwBQAOEAUAJuAE4CCQA+AkWAUIjAE4CRQB
OAgMATgIrADwCgABOAmwATgJ2ACwA2wAjAfoAAAH5AE4BygBOAEIATgDkAFEB7QBOAfkatgHjAE4
CBAAVAEYATgHKAE4B0gBOAEIATgHhAD4AjQA2AEIATgJAAE4CBwBOAfIATgGfAE4B5gBOAhQAQgH
mAE4BmQBOAg4ATgGeAE4CAwBCAOAATgI4AE4CgQBOAQQAQgCV/98B7QBOAEYATgHtAE4ChQBOAUn
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B/gADAF4ABwH9AAYCBgALAKEAAgPXAE4DNwBOA9sATgN9ABUDkwBOAs8ATgAAAAAMAAAADAAAAHAA
BAAAAAFsAAMAAQAAABwABAFQAAAAUABAAAUAEB+AKUAQwCxAlyAuAC7AO8BEwErATEBPgFIAU0

```

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gMCA5IEQgrCEiISYiBvsA+wT///j/8H/wP+//73/vP+6/7f/tv+0/7L/sP+u/63/q/+q/6b/Df5
h/1H9qv2p/aj9p/2m/aXhXOFb4VjhVeFM4UThO+DU4F/gXN99BoQGgwABAAAAAAAAAAAAAAAAAAAA
AA
AAAAAAAAAAAAAAAAABgIKAAAAAAAAEAAEAAAAAAAAAAAAAAAAABAAIAAAAAAAAAAAgAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAADAAQBQAGAAcACAAJAAoACwAMAA0ADgAPABAAEQA
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```

DATASOURCE.TSX

```
export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
```

```

        { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
        { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
          endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
          endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
      ],
    },
    {
      taskID: 6,
      taskName: 'Design',
      startDate: new Date('02/10/2017'),
      endDate: new Date('02/14/2017'),
      duration: 3,
      progress: 86,
      priority: 'High',
      approved: false,
      subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,

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duration: 11,
progress: 66,
subtasks: [
    {
        taskID: 13,
        taskName: 'Phase 1',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
            ]
        }]
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,

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        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
            ]
        }]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [

```

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        { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
  }
}

];
export let projectData: object[] = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',

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'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
{ 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
'EndDate': new Date('03/13/2017'), 'Progress': '40' },
{ 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
{ 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
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```

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0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAL//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAER//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAmP/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/1AKr/5QCr/+UArP/1AK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Show spinner while exporting in React Treegrid component

You can show/ hide spinner component while exporting the treegrid using [showSpinner/](#) [hideSpinner](#) methods. You can use [toolbarClick](#) event to show spinner before exporting and hide a spinner in the [pdfExportComplete](#) or [excelExportComplete](#) event after the exporting.

In the [toolbarClick](#) event, based on the parameter **args.item.text** as **PDF Export** or **Excel Export** we can call the [showSpinner](#) method from grid instance.

In the [pdfExportComplete](#) or [excelExportComplete](#) event, We can call the [hideSpinner](#) method.

In the below demo, we have rendered the default spinner component when exporting the treegrid.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Toolbar, Page, PdfExport, ExcelExport } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const toolbarOptions = ['PdfExport', 'ExcelExport'];
    let treegrid;
    const selectionOptions = { type: 'Multiple' };
    const pageOptions = { pageSize: 5, pageCount: 5 };
    const toolbarClick = (args) => {
        if (treegrid && args.item.text === 'PDF Export') {
            treegrid.showSpinner();
            treegrid.pdfExport();
        }
        else if (treegrid && args.item.text === 'Excel Export') {
            treegrid.showSpinner();
            treegrid.excelExport();
        }
    };
    const pdfExportComplete = () => {
        if (treegrid) {
            treegrid.hideSpinner();
        }
    };
    const excelExportComplete = () => {
        if (treegrid) {
            treegrid.hideSpinner();
        }
    };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='parentID' allowPaging={true}
    pageSettings={pageOptions} toolbarClick={toolbarClick}
    toolbar={toolbarOptions} ref={g => treegrid = g} allowPdfExport={true}
    allowExcelExport={true} selectionSettings={selectionOptions}
    pdfExportComplete={pdfExportComplete}
    excelExportComplete={excelExportComplete}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
            textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
            width='100'></ColumnDirective>
            <ColumnDirective field='StartDate' headerText='Start Date'
            width='100' format='yMd' textAlign='Right'
            editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='EndDate' headerText='End Date' width='100'
            format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
            <ColumnDirective field='Duration' headerText='Duration' width='90'
            textAlign='Right' />
        </ColumnsDirective>
    </TreeGridComponent>);
}
```



```

        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Toolbar, Page, PdfExport, ExcelExport]} />
    </TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from './datasource';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject,
SelectionSettingsModel, PageSettingsModel } from '@syncfusion/ej2-react-
treegrid';
import { Toolbar, ToolbarItems, Page, TreeGrid, PdfExport, ExcelExport }
from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport', 'ExcelExport'];
    let treegrid: TreeGridComponent | null;
    const selectionOptions: SelectionSettingsModel = {type: 'Multiple'};
    const pageOptions: PageSettingsModel = {pageSize:5, pageCount:5};
    const toolbarClick = (args: ClickEventArgs) => {
        if (treegrid && args.item.text === 'PDF Export') {
            treegrid.showSpinner();
            treegrid.pdfExport();
        } else if (treegrid && args.item.text === 'Excel Export') {
            treegrid.showSpinner();
            treegrid.excelExport();
        }
    }
    const pdfExportComplete = (): void => {
        if (treegrid) {
            treegrid.hideSpinner();
        }
    }
    const excelExportComplete = (): void => {
        if (treegrid) {
            treegrid.hideSpinner();
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping= 'TaskID' parentIdMapping='parentID' allowPaging={true}
pageSettings={pageOptions}
toolbarClick={toolbarClick} toolbar={toolbarOptions}
ref={g => treegrid = g} allowPdfExport={true} allowExcelExport={true}
selectionSettings={selectionOptions}
pdfExportComplete={pdfExportComplete}
excelExportComplete={excelExportComplete}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
textAlign='Right' isPrimaryKey={true}></ColumnDirective>

```

```

        <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Toolbar, Page, PdfExport, ExcelExport]} />
    </TreeGridComponent>
);
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
    {
        taskID: 1,
        taskName: 'Planning',
        startDate: new Date('02/03/2017'),
        endDate: new Date('02/07/2017'),
        progress: 100,
        duration: 5,
        priority: 'Normal',
        approved: false,
        subtasks: [
            { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
            { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
            { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
                endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
                endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
        ]
    },
    {
        taskID: 6,
        taskName: 'Design',
        startDate: new Date('02/10/2017'),
        endDate: new Date('02/14/2017'),
        duration: 3,
        progress: 86,
    }
]

```

```

        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),

```

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        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
    ]
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
            ]
        }
    ]
    }
]

```

```

        { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
    ]
  }
},
{
  taskID: 29,
  taskName: 'Phase 3',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,
  duration: 11,
  progress: 30,
  subtasks: [{
    taskID: 30,
    taskName: 'Implementation Module 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    duration: 11,
    progress: 60,
    subtasks: [
      { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
      { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
      { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
      { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
      { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
      { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),

```

```

        endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
    ]
    }]
    }
    ]
    }
];
export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',

```

```
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
{ 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
{ 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAA08EdTVUK49LjmAAC2mAAAACRPuy8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADmdhc3AAAAQAACnXAAAAAhnbHlmlUxHIQAADyQAAIfEaGvHzPyoXpQAAAEcAAA
ANmhoZWEK6QfQAAABVAAAACRobXR4CMZdfQAAAFgAAAZwbG9jYWAAPVIAAAvoAAD0mlheHAB5QB
RAAABeAAAACBuYw1lvYefIwAAlugAAAbGcG9zdL7lSo8AAJ2wAAAJqXByZXBoBoyFAAAL4AAAAAc
AAQAAAAIAg2XnRcRfDz1AA5D6AAAAADK+KMLAAAAAMttDz//xP81B14DvQAAAAgAAgAAAAAAAA
BAAADxP8YAAAHfP/E/7kHXgABAAAAAAAAAAAAAAAAABnAABAAABnABOAAcAAAAAAAAIAAAABAAE
AAABAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWAAAAV4AMgD6AAACAAUGBAAAAGAEgAAARxA
AIEoAAAAAAAAAAEFEQkUAAAAg+wQDxP8YAAADWgDoAAAMwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
BTQAAARYAAADWAE4BqgBzAmUAIgIcACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAiAKUAEQG
aAC0AewARAAaYAGgILAD8A0gAaAZMAGgG6ABOB6gAaAboAGgHdABOBvgAaAdoAGgHdABOAawAaAJQ
AGgFpABOBdAaaAWkAGgGXABOCxwAaAg8ADAIiAE4BsgBCAkAATgHRAE4BvwBOAhkAQQJMAE4AxAA
dALL//gHcAE8BuABOArYATgKKAE4CJQA/AiMATgILAD8CNABOAjEAJQGSAAACNgBKak8ATgMpAE4
CSwAtAiWAPAIImAB8BPwBOAeMATgE/AE4BkwBOAgIATADeAC4BygAlAeIATgF/ACQB2wBHAbIAIwE
oAE4BwAALAE0AQADVAE4Awv/6AbMAQwDLAE4C4QBOAfQAQAHAC8B6gBOAcAAJQFNAD0BrwAkAPM
ALAG/ACQBqgASAr4AEgHhADOB3gAlAeAATgE0AE4AywBOATQATgICAE4AlgBOAbMATgHZAE4B0AB
OAjAANQJMAE4A3gAEAYAGQF+AE4B8gAqAZoALQMgABkBTgBOAZEATgG1AE4A3gAuAd0AJQKfAE4
BmgBMAGIABAHUAE8CDwAMAg8ADAIpAAwCDwAMAg8ADAIpAAwDLgBOAbIAQgHRAE4B0QBOAdEATgH
RAE4BGABTAVgATgHAAE4BFABOAoAATgKKAE4CJQA/AiUAPwILAD8CJQA/AiUAPwGGAE4CFQBOAjY
ASgI2AEoCNgBKajYASgIsADwB6gBOAgAATgHyAE4B8gBOAfIATgHyAE4B8gBOAfIATgMuAE4BfWA
kAdkATgHZAE4B4gBOAcIAIwDnAE4A4wBRAJ//xACO/98B4gBOAeYATgHmAE4B5gBOAeYATgHmAE4
BsABOAe8ATgHmAE4B5gBOAeYATgHmAE4CCABOAeoATgIIAE4CDwAMAfIATgIPAAwB8gBOApYATgH
2ACUBsgBCAbMATgGyAEIB0wBOAbIAQgGzAE4BsgBCAbQATgJAAE4CYABOAkAATgIfAE4B0QBOAcI
AIwHRAE4B2QBOAfsATgGyACMB0QBOAdkATgIZAEEB6wBOAhkAQQHqAE4CNgBKAEoATgIZAEEB6gB
OAwkATgJDAB8CrQBOAiAATgHoAE4BuWBOAXYATgFKAE4BwWBOAQn/+gEYAE4AgQApAQT//gGTAE4
B3ABPab4AQwHiAE4BuABOARIAUQG4AE4A/wBOAb//3gDN/9oCVQBOAaYATgKKAE4B4gBOAooATgH
0AEACigBOAeIATgKLAE4B9QBAAiUAPwHmAE4CJQA/AeYATgM2AE4DFwBOAjQATgFrAE4CNABOAVs
APQI0AE4BkwBOAjEAJQG8ADECMQAlAdkATgGvACQCMQAlAdkATgGSAAABCwAsAZIAAAFu/+sBkgA
AAWcATgI2AEoB5gBOAjYASgHmAE4CNgBKAEYATgI2AEoB5gBOAjYASgHmAE4CNgBKAEIAJAI5ADw
CJgAfAeAATgImAB8B4ABOAiYAHwHgAE4CMQAlAa8AJAGTAC4BiwAuAVMALgA/AAQByv/+AX8ATAG
7AE4Bxf/+AUyATgJqAE4CZgBOAsgATgGCAE4CigBOAs8ATgLRAE4A+wAPAhSADAIiAE4BvwBOAhE
ADAG/AE4CWABOAkAAUAIvAE4BKwBQaf4ATgIvAAwCtwBQAOeAUAJuAE4CCQA+AkWAAUIjAE4CRQB
OAgMATgIrADwCgABOAmwATgJ2ACwA2wAjAfoAAAH5AE4BygBOAeIATgDkAFEB7QBOAfkatgHjAE4
CBAVAeYATgHKAE4B0gBOAeIATgHhAD4AjQA2AeIATgJAAE4CBwBOAfIATgGfAE4B5gBOAhQAQgH
mAE4BmQBOAg4ATgGeAE4CawBCAoAATgI4AE4CgQBOAQgCV/98B7QBOAeYATgHtAE4ChQBOAUn
//gFJ//4ApQARAE4D//gHg//4BPAARAdYATgHgABEEFwBSARcAKgEnAAQB4gBOAhEATgJcAHMCwB
OAmoATgIjAE4BiABOAYcATgJtAE4BygAAAIwATgJqAE4HfAASAgQATgHmACwCLAAxAFsABAIHAaw
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```

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```

DATASOURCE.TSX

```

export let sampleData: Object[] = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),

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        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
        { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
},
{
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
        { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',

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        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        progress: 50,
        duration: 11,
        subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
                { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
                { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
                { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
            ]
        }]
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),

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        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
            { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
            endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
            endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
            { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
            endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
        ]
    }
},
{
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
        taskID: 30,
        taskName: 'Implementation Module 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'High',
        approved: false,
        duration: 11,
        progress: 60,
        subtasks: [
            { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),

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        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }
}
]
}
];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',

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      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
      { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
      'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];

```

```
export let adventProFont: string =
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```

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```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Passing parameter to server exporting in React Treegrid component

You can pass the additional parameter in the [query](#) property by invoking [addParams](#) method. In the [toolbarClick](#) event, you can define params as key and value pair so it will receive at the server side when exporting.

In the below example, we have passed *recordcount* as 12 using [addParams](#) method.

APP.JSX

```
import * as React from 'react';
import { projectData } from '../datasource';
import { Query } from '@syncfusion/ej2-data';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
```

```

import { Toolbar, Page, PdfExport, ExcelExport } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const toolbarOptions = ['PdfExport', 'ExcelExport'];
    let treegrid;
    let queryClone;
    const pageOptions = { pageSize: 5, pageCount: 5 };
    const toolbarClick = (args) => {
        if (treegrid && args.item.text === 'PDF Export') {
            queryClone = treegrid.query;
            treegrid.query = new Query().addParams("recordcount", "12");
            treegrid.pdfExport();
        }
        else if (treegrid && args.item.text === 'Excel Export') {
            queryClone = treegrid.query;
            treegrid.query = new Query().addParams("recordcount", "12");
            treegrid.excelExport();
        }
    };
    const pdfExportComplete = () => {
        if (treegrid) {
            treegrid.query = queryClone;
        }
    };
    const excelExportComplete = () => {
        if (treegrid) {
            treegrid.query = queryClone;
        }
    };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='parentID' pageSettings={pageOptions}
    toolbarClick={toolbarClick} toolbar={toolbarOptions} allowPaging={true}
    ref={g => treegrid = g} allowPdfExport={true} allowExcelExport={true}
    pdfExportComplete={pdfExportComplete}
    excelExportComplete={excelExportComplete}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
            textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
            width='100'></ColumnDirective>
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            textAlign='Right'></ColumnDirective>
            <ColumnDirective field='Priority' headerText='Priority' width='90'
            textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
        <Inject services={[Toolbar, Page, PdfExport, ExcelExport]}></Inject>
    </TreeGridComponent>);
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { projectData } from '../datasource';
import { Query } from '@syncfusion/ej2-data';
import { ClickEventArgs } from '@syncfusion/ej2-navigations';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Toolbar, ToolbarItems, Page, TreeGrid, PdfExport, ExcelExport, PageSettingsModel } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const toolbarOptions: ToolbarItems[] = ['PdfExport', 'ExcelExport'];
    let treegrid: TreeGridComponent | null;
    let queryClone: Query;
    const pageOptions: PageSettingsModel = { pageSize: 5, pageCount: 5 };
    const toolbarClick = (args: ClickEventArgs) => {
        if (treegrid && args.item.text === 'PDF Export') {
            queryClone = treegrid.query;
            treegrid.query = new Query().addParams("recordcount", "12");
            treegrid.pdfExport();
        } else if (treegrid && args.item.text === 'Excel Export') {
            queryClone = treegrid.query;
            treegrid.query = new Query().addParams("recordcount", "12");
            treegrid.excelExport();
        }
    }
    const pdfExportComplete = (): void => {
        if (treegrid) {
            treegrid.query = queryClone;
        }
    }
    const excelExportComplete = (): void => {
        if (treegrid) {
            treegrid.query = queryClone;
        }
    }
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
        idMapping= 'TaskID' parentIdMapping='parentID' pageSettings={pageOptions}
        toolbarClick={toolbarClick} toolbar={toolbarOptions}
        allowPaging={true}
        ref={g => treegrid = g} allowPdfExport={true} allowExcelExport={true}
        pdfExportComplete={pdfExportComplete}
        excelExportComplete={excelExportComplete}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
                textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
                width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
                width='100' format='yMd' textAlign='Right'
                editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='EndDate' headerText='End Date' width='100'
                format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
            </ColumnsDirective>
        </TreeGridComponent>
    );
}

```



```

        <ColumnDirective field='Duration' headerText='Duration' width='90'
        textAlign='Right' />
        <ColumnDirective field='Priority' headerText='Priority' width='90'
        textAlign='Right' />
    </ColumnsDirective>
    <Inject services=[{Toolbar, Page, PdfExport, ExcelExport}] />
    </TreeGridComponent>
  );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
    ]
  }
];

```

```

        { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
          endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
        { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
          endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
          endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
      ]
    },
    {
      taskID: 12,
      taskName: 'Implementation Phase',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'Normal',
      approved: false,
      duration: 11,
      progress: 66,
      subtasks: [
        {
          taskID: 13,
          taskName: 'Phase 1',
          startDate: new Date('02/17/2017'),
          endDate: new Date('02/27/2017'),
          priority: 'High',
          approved: false,
          progress: 50,
          duration: 11,
          subtasks: [{
            taskID: 14,
            taskName: 'Implementation Module 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            duration: 11,
            progress: 10,
            approved: false,
            subtasks: [
              { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
              { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
              { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),

```

```

                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
            ]
        }
    },
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
                endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
                endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
                endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
            ]
        }
    ]
}

```

```

        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}
]
];
export let projectData = [

```

```

    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}

```

```
];
export let adventProFont =
'AAEAAAAARAQAABAAQRFNJRwAAAAEAAALa8AAAACEZGVE1fekHUAACnZAAAABxHREVGACgBwQAAP4A
AAAAoR1BPU0UutbcAAKeoAAAO8EdTVUK49LjAAC2mAAAACRPuY8yegjc7gAAAZgAAABgY21hcP/
iHw8AAAhOAAADmdhc3AAAAQAACnXAAAAHnbHlm1UxHIQAADyQAAIfEaGvHzPyoXpQAAAEcAAA
ANmhoZWEK6QfqaAABVAAAACRobXR4CMZdfQAAafgAAAZwbG9jYWAAPVIAAAvoAADOm1heHAB5QB
RAAABeAAAACBuYW11vYefIwAAlugAAABGcG9zdL7lSo8AAJ2wAAAJqXByZXBoBoyFAAAL4AAAAc
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AAABAAAAAAAAAAAAIBggEsAAUAAAKKAlgAAABLAooCWAAAAV4AMgD6AAACAAUGBAAAAgAEgAAARxA
AIEoAAAAAAAAAAEFQkUAAAAg+wQDxP8YAADWgDoAAAMwAAAAAB9QK8AAAAIAACAfQAAAHKAAA
BTQAAARYAAADWAE4BqgBzAmUAIgIcACICngAmAiIAIwCqAC4BFgBOARYATgFgABoBgQAIaKUAEQG
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RAE4BGABTAVgATgHAAE4BFABOAOAATgKKAE4CJQA/AiUAPwI1AD8CJQA/AiUAPwGGAE4CFQBOAJY
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APQI0AE4BkwBOAJEAJQG8ADECMQALAdkATgGvACQCMQALAdkATgGSAAABCwAsAZIAAAFu/+sBkgA
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CBAVAeYATgHKAE4B0gBOAEIATgHhAD4AJQA2AEIATgJAAE4CBwBOAfIATgGfAE4B5gBOAhQAQgH
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BAAAAAFsAAMAAQAAABwABAFQAAAAUABAAAUAEAB+AKUAqwCxALYAUAC7AO8BEwErATEBPgFIAU0
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SEbgr2hHyEg4SLBJGELYSjBK8EvATJhNYE5gTWbPaFBoUSBR4FKQUxhT+FSYVfBXIFhYWyBa4FvY
XRhecF+IYGhhUGIoYthjQGOWZBBkoGWQZlhnKGfoaOBpeGoIawBrqGxYbPhTaG5YbvhwCHCICzhY
UHOYdFh1sHaod4B4aHkwehh64HvIfJB9QH5QfvB/8IBogTCBwIKYg0iEUITYhbCGkId4iICJkIpA
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YMXyXLDG0MdgYAjIsM1IyeDKWMswzAjNKM3wzljPKM9oz7jQGNB40NjRkNHQ0jjSgNLw01DT+NSY
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BNashDBUHDg6JCyEMFQcODgLBwcETDAQIE8HBEwWECAAAAAIAIgAAakYcVAAB8AAAEzBzM3Mwc
zFSMhMxUjByM3IwcjNyM1MzcjNTMXBzM3ARIsOIw5LDmIkii6xC8sLowvLC97hSituCEojSgCvPL
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DATASOURCE.TSX

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        duration: 3,
        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
                endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
                endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
                endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),

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        priority: 'Normal',
        duration: 11,
        progress: 10,
        approved: false,
        subtasks: [
            { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
            { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
            { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
            endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
            { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
            endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
            { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
            endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
            { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
            endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
        ]
    }
},
{
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
        taskID: 22,
        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'Critical',
        approved: false,
        duration: 12,
        progress: 90,
        subtasks: [
            { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
            endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
            { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),

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        endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
        endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
    ]
  },
  {
    taskID: 29,
    taskName: 'Phase 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 30,
    subtasks: [{
      taskID: 30,
      taskName: 'Implementation Module 3',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/27/2017'),
      priority: 'High',
      approved: false,
      duration: 11,
      progress: 60,
      subtasks: [
        { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
        { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },

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        { taskID: 35, taskName: 'Customer review meeting',
        startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
        progress: '0', priority: 'Normal', approved: true },
        { taskID: 36, taskName: 'Phase 3 complete',
        startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
        progress: '50', priority: 'Critical', approved: false },
    ]
  }
}

];
export let projectData: object[] = [
  { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40' },
  { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
  'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
  { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
  'EndDate': new Date('03/18/2017'), 'Progress': '40' },
  { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
  'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
  { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40' },
  { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
  { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
  'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },

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{ 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];
export let adventProFont: string =
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1824

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```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations.

You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Customize pager drop down in React Treegrid component

To customize default values of pager dropdown, you need to define [pageSizes](#) as array of strings.

APP.JSX

```
import * as React from 'react';
import { sampleData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
 '@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    const pageOptions = { pageSizes: ["5", "10", "All"] };
    return (<TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
    childMapping='subtasks' allowPaging={true} pageSettings={pageOptions}
    height={273}>
        <ColumnsDirective>
            <ColumnDirective field='taskID' headerText='Task ID' width='70'
            textAlign='Right'></ColumnDirective>
            <ColumnDirective field='taskName' headerText='Task Name'
            width='200'></ColumnDirective>
            <ColumnDirective field='startDate' headerText='Start Date'
            width='90' format='yMd' textAlign='Right'></ColumnDirective>
        </ColumnsDirective>
    </TreeGridComponent>);
}
```

```

        <ColumnDirective field='endDate' headerText='End Date' width='90'
format='yMd' textAlign='Right' />
        <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
        <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
        <ColumnDirective field='priority' headerText='Priority'
width='90' />
    </ColumnsDirective>
    <Inject services={[Edit, Toolbar, Page]} />
    </TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

import * as React from 'react';
import { sampleData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
'@syncfusion/ej2-react-treegrid';
import { Edit, Toolbar, Page, PageSettingsModel } from '@syncfusion/ej2-
react-treegrid';
/* tslint:disable */
function App() {

    const pageOptions: PageSettingsModel = {pageSizes: ["5", "10", "All"]};

    return (
        <TreeGridComponent dataSource={sampleData} treeColumnIndex={1}
childMapping='subtasks' allowPaging={true} pageSettings={pageOptions}
height={273}>
            <ColumnsDirective>
                <ColumnDirective field='taskID' headerText='Task ID' width='70'
textAlign='Right'></ColumnDirective>
                <ColumnDirective field='taskName' headerText='Task Name'
width='200'></ColumnDirective>
                <ColumnDirective field='startDate' headerText='Start Date'
width='90' format='yMd' textAlign='Right' />
                <ColumnDirective field='endDate' headerText='End Date' width='90'
format='yMd' textAlign='Right' />
                <ColumnDirective field='duration' headerText='Duration' width='80'
textAlign='Right' />
                <ColumnDirective field='progress' headerText='Progress' width='80'
textAlign='Right' />
                <ColumnDirective field='priority' headerText='Priority' width='90'
/>
            </ColumnsDirective>
            <Inject services={[Edit, Toolbar, Page]} />
        </TreeGridComponent>
    );
};
export default App;

```

DATASOURCE.JSX

```

export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
      { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
      { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),

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        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ],
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                            endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                        { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                            endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                        { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                            endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },
                        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
                            endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
                        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
                            endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
                    ]
                }
            ]
        }
    ]
}

```



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    ]
    }],
    {
        taskID: 21,
        taskName: 'Phase 2',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/28/2017'),
        priority: 'High',
        approved: false,
        duration: 12,
        progress: 60,
        subtasks: [{
            taskID: 22,
            taskName: 'Implementation Module 2',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/28/2017'),
            priority: 'Critical',
            approved: false,
            duration: 12,
            progress: 90,
            subtasks: [
                { taskID: 23, taskName: 'Development Task 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration:
                    4, progress: '50', priority: 'Normal', approved: true },
                { taskID: 24, taskName: 'Development Task 2',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/20/2017'), duration:
                    4, progress: '50', priority: 'Critical', approved: true },
                { taskID: 25, taskName: 'Testing', startDate:
                    new Date('02/21/2017'),
                    endDate: new Date('02/24/2017'), duration:
                    2, progress: '0', priority: 'High', approved: false },
                { taskID: 26, taskName: 'Bug fix', startDate:
                    new Date('02/25/2017'),
                    endDate: new Date('02/26/2017'), duration:
                    2, progress: '0', priority: 'Low', approved: false },
                { taskID: 27, taskName: 'Customer review
                    meeting', startDate: new Date('02/27/2017'),
                    endDate: new Date('02/28/2017'), duration:
                    2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 28, taskName: 'Phase 2 complete',
                    startDate: new Date('02/28/2017'),
                    endDate: new Date('02/28/2017'), duration:
                    0, progress: '50', priority: 'Normal', approved: false }
            ]
        }
    ]
    },
    {
        taskID: 29,
        taskName: 'Phase 3',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
    }
]

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        progress: 30,
        subtasks: [{
            taskID: 30,
            taskName: 'Implementation Module 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            duration: 11,
            progress: 60,
            subtasks: [
                { taskID: 31, taskName: 'Development Task 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
                3, progress: '50', priority: 'Low', approved: true },
                { taskID: 32, taskName: 'Development Task 2',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/19/2017'), duration:
                3, progress: '50', priority: 'Normal', approved: false },
                { taskID: 33, taskName: 'Testing', startDate:
                new Date('02/20/2017'),
                endDate: new Date('02/21/2017'), duration:
                2, progress: '0', priority: 'Critical', approved: true },
                { taskID: 34, taskName: 'Bug fix', startDate:
                new Date('02/24/2017'),
                endDate: new Date('02/25/2017'), duration:
                2, progress: '0', priority: 'High', approved: false },
                { taskID: 35, taskName: 'Customer review
                meeting', startDate: new Date('02/26/2017'),
                endDate: new Date('02/27/2017'), duration:
                2, progress: '0', priority: 'Normal', approved: true },
                { taskID: 36, taskName: 'Phase 3 complete',
                startDate: new Date('02/27/2017'),
                endDate: new Date('02/27/2017'), duration:
                0, progress: '50', priority: 'Critical', approved: false },
            ]
        }
    ]
}

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DATASOURCE.TSX

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export let sampleData: Object[] = [
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    taskName: 'Planning',
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    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
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        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
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Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
```

```

        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
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        { taskID: 9, taskName: 'Get approval from customer', startDate:
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        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
        priority: 'Low', approved: true },
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        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
        priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
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        priority: 'Normal', approved: true }
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},
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    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
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            priority: 'High',
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            progress: 50,
            duration: 11,
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                taskID: 14,
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                priority: 'Normal',
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                    progress: '50', priority: 'High', approved: false },
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                    progress: '50', priority: 'Low', approved: true },
                    { taskID: 17, taskName: 'Testing', startDate: new
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startDate: new Date('02/26/2017'),
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progress: '0', priority: 'High', approved: false },
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startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
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    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
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    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
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        taskName: 'Implementation Module 2',
        startDate: new Date('02/17/2017'),
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Date('02/21/2017'),
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progress: '0', priority: 'High', approved: false },
            { taskID: 26, taskName: 'Bug fix', startDate: new
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progress: '0', priority: 'Low', approved: false },
            { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
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progress: '0', priority: 'Critical', approved: true },
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    approved: false,
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startDate: new Date('02/17/2017'),
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progress: '50', priority: 'Normal', approved: false },
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        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
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progress: '0', priority: 'High', approved: false },
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startDate: new Date('02/26/2017'),
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```
OAFn/wwBc/8AAr//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ/+YAWv/iAFv/5wBc//IAtf/yAAQAD/+9ABH/rABc/9YAtf/WADQAD/9rABD/tgAR/14AHf+3AB7/nQBE/5sARv/LAEf/1ABI/9EASv/PAEz/5QBO/9kAT//bAFD/2wBR/9sAUv/CAFP/2QBU/80AVf/fAFb/ywBX/+8AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QCj/+UApP/1AKX/5QCm/+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAR//5ALD/+QCx//kAsv/5ALX/6QDj/+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAP/5cAEf+KAET/xwBF//oASP/cAJf/xwCY/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEGAP/5oAEf+OAET/zABH//0ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AAGAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAR/OAAL//YAJv/GACr/xgAy/9oANP/XADf/rAA4/74AOf+YADr/qAA8/5UARP/mAEB/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YANP/mAJ3/5gCe/+YAn//wAKD/8ACH//AAov/wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58AAQCC//0AAQCFABcAAQCGAA8AAQCNAAEAQCAJAAEAQCT//cACQBF/9sASQAGAER/+QBT/+QAV//0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAL//6ALX/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQAR/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9cAEf/GAER//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+IAnP/iAJ3/4gCo/+UAqf/1AKr/5QCr/+UARp/1AK7/5QD+/+UAAQEuABYAAQF0/6EAAwBW/7YAV//uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';
```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

Add params for filtering in React Treegrid component

You can customize the default settings of the components which are used in Menu filter by using params of filter property in column definition.

In the below sample, TaskID and Duration Columns are numeric columns, while open the filter dialog then you can see that NumericTextBox with spin button is displayed to change/set the filter value. Now using the params option we hide the spin button in NumericTextBox for TaskID Column.

APP.JSX

```
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from '@syncfusion/ej2-react-treegrid';
import { Page, Filter } from '@syncfusion/ej2-react-treegrid';
/* tslint:disable */
function App() {
    let treegrid;
    const FilterOptions = {
        type: 'Menu'
    };
    const ifilter = { params: { showSpinButton: false } };
    return (<TreeGridComponent dataSource={projectData} treeColumnIndex={1}
    idMapping='TaskID' parentIdMapping='parentID' allowFiltering={true}
    filterSettings={FilterOptions} ref={g => treegrid = g} height={273}>
        <ColumnsDirective>
            <ColumnDirective field='TaskID' headerText='Task ID' width='70'
            filter={ifilter} textAlign='Right' isPrimaryKey={true}></ColumnDirective>
            <ColumnDirective field='TaskName' headerText='Task Name'
            width='100'></ColumnDirective>
```



```

        <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
        <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
        <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
    </ColumnsDirective>
    <Inject services={[Filter, Page]} />
</TreeGridComponent>;
}
;
export default App;

```

APP.TSX

```

{% raw %}
import * as React from 'react';
import { projectData } from './datasource';
import { ColumnsDirective, ColumnDirective, TreeGridComponent, Inject } from
'@syncfusion/ej2-react-treegrid';
import { Page, TreeGrid, Filter, FilterSettingsModel } from
'@syncfusion/ej2-react-treegrid';
import { IFilter } from '@syncfusion/ej2-react-grids';
/* tslint:disable */
function App() {
    let treegrid: TreeGridComponent | null;
    const FilterOptions: FilterSettingsModel = {
        type: 'Menu'
    };

    const ifilter: IFilter = { params: { showSpinButton: false } };
    return (
        <TreeGridComponent dataSource={projectData} treeColumnIndex={1}
idMapping='TaskID' parentIdMapping='parentID' allowFiltering={true}
filterSettings={FilterOptions}
ref={g => treegrid = g} height={273}>
            <ColumnsDirective>
                <ColumnDirective field='TaskID' headerText='Task ID' width='70'
filter={ifilter} textAlign='Right' isPrimaryKey={true}></ColumnDirective>
                <ColumnDirective field='TaskName' headerText='Task Name'
width='100'></ColumnDirective>
                <ColumnDirective field='StartDate' headerText='Start Date'
width='100' format='yMd' textAlign='Right'
editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='EndDate' headerText='End Date' width='100'
format='yMd' textAlign='Right' editType='datepickeredit'></ColumnDirective>
                <ColumnDirective field='Duration' headerText='Duration' width='90'
textAlign='Right' />
                <ColumnDirective field='Priority' headerText='Priority' width='90'
textAlign='Right' />
            </ColumnsDirective>
            <Inject services={[Filter, Page]} />
        </TreeGridComponent>
    );
}

```

```
);
};
export default App;
{% enddraw %}
```

DATASOURCE.JSX

```
export let sampleData = [
  {
    taskID: 1,
    taskName: 'Planning',
    startDate: new Date('02/03/2017'),
    endDate: new Date('02/07/2017'),
    progress: 100,
    duration: 5,
    priority: 'Normal',
    approved: false,
    subtasks: [
      { taskID: 2, taskName: 'Plan timeline', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Normal', approved: false },
      { taskID: 3, taskName: 'Plan budget', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Low', approved: true },
      { taskID: 4, taskName: 'Allocate resources', startDate: new
Date('02/03/2017'),
        endDate: new Date('02/07/2017'), duration: 5, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
    progress: 86,
    priority: 'High',
    approved: false,
    subtasks: [
      { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
      { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
        endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
      { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
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        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
        { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
        endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
        { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
        endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
    ]
},
{
    taskID: 12,
    taskName: 'Implementation Phase',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'Normal',
    approved: false,
    duration: 11,
    progress: 66,
    subtasks: [
        {
            taskID: 13,
            taskName: 'Phase 1',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'High',
            approved: false,
            progress: 50,
            duration: 11,
            subtasks: [{
                taskID: 14,
                taskName: 'Implementation Module 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'Normal',
                duration: 11,
                progress: 10,
                approved: false,
                subtasks: [
                    { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'High', approved: false },
                    { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
                    endDate: new Date('02/19/2017'), duration:
3, progress: '50', priority: 'Low', approved: true },
                    { taskID: 17, taskName: 'Testing', startDate:
new Date('02/20/2017'),
                    endDate: new Date('02/21/2017'), duration:
2, progress: '0', priority: 'Normal', approved: true },
                    { taskID: 18, taskName: 'Bug fix', startDate:
new Date('02/24/2017'),
                    endDate: new Date('02/25/2017'), duration:
2, progress: '0', priority: 'Critical', approved: false },

```

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        { taskID: 19, taskName: 'Customer review
meeting', startDate: new Date('02/26/2017'),
          endDate: new Date('02/27/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
          endDate: new Date('02/27/2017'), duration:
0, progress: '50', priority: 'Low', approved: true }
      ]
    }
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration:
4, progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate:
new Date('02/21/2017'),
          endDate: new Date('02/24/2017'), duration:
2, progress: '0', priority: 'High', approved: false },
        { taskID: 26, taskName: 'Bug fix', startDate:
new Date('02/25/2017'),
          endDate: new Date('02/26/2017'), duration:
2, progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review
meeting', startDate: new Date('02/27/2017'),
          endDate: new Date('02/28/2017'), duration:
2, progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
          endDate: new Date('02/28/2017'), duration:
0, progress: '50', priority: 'Normal', approved: false }
      ]
    }
  ]
},

```

```

        {
            taskID: 29,
            taskName: 'Phase 3',
            startDate: new Date('02/17/2017'),
            endDate: new Date('02/27/2017'),
            priority: 'Normal',
            approved: false,
            duration: 11,
            progress: 30,
            subtasks: [{
                taskID: 30,
                taskName: 'Implementation Module 3',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                duration: 11,
                progress: 60,
                subtasks: [
                    { taskID: 31, taskName: 'Development Task 1',
                        startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
                        3, progress: '50', priority: 'Low', approved: true },
                    { taskID: 32, taskName: 'Development Task 2',
                        startDate: new Date('02/17/2017'),
                        endDate: new Date('02/19/2017'), duration:
                        3, progress: '50', priority: 'Normal', approved: false },
                    { taskID: 33, taskName: 'Testing', startDate:
                        new Date('02/20/2017'),
                        endDate: new Date('02/21/2017'), duration:
                        2, progress: '0', priority: 'Critical', approved: true },
                    { taskID: 34, taskName: 'Bug fix', startDate:
                        new Date('02/24/2017'),
                        endDate: new Date('02/25/2017'), duration:
                        2, progress: '0', priority: 'High', approved: false },
                    { taskID: 35, taskName: 'Customer review
                        meeting', startDate: new Date('02/26/2017'),
                        endDate: new Date('02/27/2017'), duration:
                        2, progress: '0', priority: 'Normal', approved: true },
                    { taskID: 36, taskName: 'Phase 3 complete',
                        startDate: new Date('02/27/2017'),
                        endDate: new Date('02/27/2017'), duration:
                        0, progress: '50', priority: 'Critical', approved: false },
                ]
            }]
        }
    ]
};

export let projectData = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 3, 'Priority': 'Normal',
      'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
    Date('02/23/2017'), 'Duration': 4, 'Priority': 'Low',
      'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
    },

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    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority': 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1
},
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority': 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority': 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority': 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5
},
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority': 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority': 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority': 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
},
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority': 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10
}
];
export let adventProFont =
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```

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AIEoAAAAAAAAAAEFEQkUAAAAg+wQDxP8YAADWgDoAAAMwAAAAAB9QK8AAAAIAACafQAAAHKAAA
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DATASOURCE.TSX

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        priority: 'Critical', approved: false },
      { taskID: 5, taskName: 'Planning complete', startDate: new
Date('02/07/2017'),
        endDate: new Date('02/07/2017'), duration: 0, progress: 0,
        priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 6,
    taskName: 'Design',
    startDate: new Date('02/10/2017'),
    endDate: new Date('02/14/2017'),
    duration: 3,
```



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        progress: 86,
        priority: 'High',
        approved: false,
        subtasks: [
            { taskID: 7, taskName: 'Software Specification', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 60,
priority: 'Normal', approved: false },
            { taskID: 8, taskName: 'Develop prototype', startDate: new
Date('02/10/2017'),
              endDate: new Date('02/12/2017'), duration: 3, progress: 100,
priority: 'Critical', approved: false },
            { taskID: 9, taskName: 'Get approval from customer', startDate:
new Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'Low', approved: true },
            { taskID: 10, taskName: 'Design Documentation', startDate: new
Date('02/13/2017'),
              endDate: new Date('02/14/2017'), duration: 2, progress: 100,
priority: 'High', approved: true },
            { taskID: 11, taskName: 'Design complete', startDate: new
Date('02/14/2017'),
              endDate: new Date('02/14/2017'), duration: 0, progress: 0,
priority: 'Normal', approved: true }
        ]
    },
    {
        taskID: 12,
        taskName: 'Implementation Phase',
        startDate: new Date('02/17/2017'),
        endDate: new Date('02/27/2017'),
        priority: 'Normal',
        approved: false,
        duration: 11,
        progress: 66,
        subtasks: [
            {
                taskID: 13,
                taskName: 'Phase 1',
                startDate: new Date('02/17/2017'),
                endDate: new Date('02/27/2017'),
                priority: 'High',
                approved: false,
                progress: 50,
                duration: 11,
                subtasks: [{
                    taskID: 14,
                    taskName: 'Implementation Module 1',
                    startDate: new Date('02/17/2017'),
                    endDate: new Date('02/27/2017'),
                    priority: 'Normal',
                    duration: 11,
                    progress: 10,
                    approved: false,
                    subtasks: [
                        { taskID: 15, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),

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        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'High', approved: false },
        { taskID: 16, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
        { taskID: 17, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
        { taskID: 18, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: false },
        { taskID: 19, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
        { taskID: 20, taskName: 'Phase 1 complete',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Low', approved: true }
    ]
  },
  {
    taskID: 21,
    taskName: 'Phase 2',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/28/2017'),
    priority: 'High',
    approved: false,
    duration: 12,
    progress: 60,
    subtasks: [{
      taskID: 22,
      taskName: 'Implementation Module 2',
      startDate: new Date('02/17/2017'),
      endDate: new Date('02/28/2017'),
      priority: 'Critical',
      approved: false,
      duration: 12,
      progress: 90,
      subtasks: [
        { taskID: 23, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Normal', approved: true },
        { taskID: 24, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
          endDate: new Date('02/20/2017'), duration: 4,
progress: '50', priority: 'Critical', approved: true },
        { taskID: 25, taskName: 'Testing', startDate: new
Date('02/21/2017'),
          endDate: new Date('02/24/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
      ]
    }
  ]
}

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        { taskID: 26, taskName: 'Bug fix', startDate: new
Date('02/25/2017'),
        endDate: new Date('02/26/2017'), duration: 2,
progress: '0', priority: 'Low', approved: false },
        { taskID: 27, taskName: 'Customer review meeting',
startDate: new Date('02/27/2017'),
        endDate: new Date('02/28/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
        { taskID: 28, taskName: 'Phase 2 complete',
startDate: new Date('02/28/2017'),
        endDate: new Date('02/28/2017'), duration: 0,
progress: '50', priority: 'Normal', approved: false }
    ]
  }
},
{
  taskID: 29,
  taskName: 'Phase 3',
  startDate: new Date('02/17/2017'),
  endDate: new Date('02/27/2017'),
  priority: 'Normal',
  approved: false,
  duration: 11,
  progress: 30,
  subtasks: [{
    taskID: 30,
    taskName: 'Implementation Module 3',
    startDate: new Date('02/17/2017'),
    endDate: new Date('02/27/2017'),
    priority: 'High',
    approved: false,
    duration: 11,
    progress: 60,
    subtasks: [
      { taskID: 31, taskName: 'Development Task 1',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Low', approved: true },
      { taskID: 32, taskName: 'Development Task 2',
startDate: new Date('02/17/2017'),
        endDate: new Date('02/19/2017'), duration: 3,
progress: '50', priority: 'Normal', approved: false },
      { taskID: 33, taskName: 'Testing', startDate: new
Date('02/20/2017'),
        endDate: new Date('02/21/2017'), duration: 2,
progress: '0', priority: 'Critical', approved: true },
      { taskID: 34, taskName: 'Bug fix', startDate: new
Date('02/24/2017'),
        endDate: new Date('02/25/2017'), duration: 2,
progress: '0', priority: 'High', approved: false },
      { taskID: 35, taskName: 'Customer review meeting',
startDate: new Date('02/26/2017'),
        endDate: new Date('02/27/2017'), duration: 2,
progress: '0', priority: 'Normal', approved: true },
      { taskID: 36, taskName: 'Phase 3 complete',
startDate: new Date('02/27/2017'),

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        endDate: new Date('02/27/2017'), duration: 0,
progress: '50', priority: 'Critical', approved: false },
    ]
    }]
    }
    ]
    }
];
export let projectData: object[] = [
    { 'TaskID': 1, 'TaskName': 'Parent Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 3, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40' },
    { 'TaskID': 2, 'TaskName': 'Child Task 1', 'StartDate': new
Date('02/23/2017'), 'Duration': 4, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 3, 'TaskName': 'Child Task 2', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Normal',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 4, 'TaskName': 'Child Task 3', 'StartDate': new
Date('02/23/2017'), 'Duration': 2, 'Priority' : 'Low',
    'EndDate': new Date('02/27/2017'), 'Progress': '40', 'parentID': 1 },
    { 'TaskID': 5, 'TaskName': 'Parent Task 2', 'StartDate': new
Date('03/14/2017'), 'Duration': 6, 'Priority' : 'Normal',
    'EndDate': new Date('03/18/2017'), 'Progress': '40' },
    { 'TaskID': 6, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/02/2017'), 'Duration': 11, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 7, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/02/2017'), 'Duration': 7, 'Priority' : 'Critical',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 8, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/02/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 9, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/02/2017'), 'Duration': 15, 'Priority' : 'High',
    'EndDate': new Date('03/06/2017'), 'Progress': '40', 'parentID': 5 },
    { 'TaskID': 10, 'TaskName': 'Parent Task 3', 'StartDate': new
Date('03/09/2017'), 'Duration': 17, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40' },
    { 'TaskID': 11, 'TaskName': 'Child Task 1', 'StartDate': new
Date('03/9/2017'), 'Duration': 0, 'Priority' : 'Low',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 12, 'TaskName': 'Child Task 2', 'StartDate': new
Date('03/9/2017'), 'Duration': 10, 'Priority' : 'Breaker',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 13, 'TaskName': 'Child Task 3', 'StartDate': new
Date('03/9/2017'), 'Duration': 11, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 14, 'TaskName': 'Child Task 4', 'StartDate': new
Date('03/9/2017'), 'Duration': 1, 'Priority' : 'Normal',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 },
    { 'TaskID': 15, 'TaskName': 'Child Task 5', 'StartDate': new
Date('03/9/2017'), 'Duration': 14, 'Priority' : 'Critical',
    'EndDate': new Date('03/13/2017'), 'Progress': '40', 'parentID': 10 }
];
export let adventProFont: string =
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```

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gALL/4AC1/9IA4//wAP7/xgACADz/6gEe/+oAHQAP/8sAEP/SABH/vAAd/9cAHv/eACT/2AAy/9g
AUv/1AFP/xgB3/9gAeP/YAHn/2AB6/9gAe//YAHZ/2ACX/+IAMP/iAJn/4gCa/+IAM//iAJz/4gC
d/+IAQp/1AKn/5QCq/+UAq//1AKz/5QCq/+UA/v/1AAgAD//FABH/tABF/8wAT//LAFH//QBZ/9Q
AXP/XALX/1wAHABH/6QBH//AAS//eAE7/3wBP/98AXP/oALX/6AAGAEf/+QBIAAYAnwAGAKAABgC
hAAYAogAGACgABf+/AAR/xgAP/7AAEF+kAET/rgBF//cArv/qAEf/6gBI/80ASf/tAER/7QBL//Q
ATP/wAE//6wBQ//QAUF/3AFL/xQBT/+oAVP/tAFX/9ABd/+oAl//+AJj/vgCZ/74Amv//+AJv/vgC
c/74Anf//+AJ//1wCg/9cAof/XAKL/1wCo/8UAqf/FAKr/xQCr/8UARp/FAK7/xQD+/8UBdf/6ACA
AEf/mAET/+wBI//8ASv/+AEz/6wBS//8AVf/qAFz/8QCX//sAmP/7AJn/+wCa//sAm//7AJz/+wC
d//sAn//AKD//wCh//8Aov//AKP/6wCk/+sApf/rAKb/6wCo//8Aqf//AKr//wCr//8ArP//AK7
//wC1//EA4//rAP7//wAGAE7/8ABY//AAR//wALD/8ACx//AAsv/wABAASP/pAE//9gBS/90AXP/
PAJ//6QCg/+kAof/pAKL/6QCo/90Aqf/dAKr/3QCr/90ArP/dAK7/3QC1/88A/v/dAAoARP/wAFD

```

/8ABa/+gAl//wAJj/8ACZ//AAmv/wAJv/8ACc//AAnf/wAAMAUf/9AFz/2QC1/9kACQBS/+0AWP/
OAFn/wwBc/8AAr//OALD/zgCx/84Asv/OALX/wAAJAA//1wAR/8YASv/8AFP/9wBZ/+YAWv/iAFv
/5wBc//IAtf/yAAQAD/+9ABH/rABc/9YAtf/WADQAD/9rABD/tgAR/14AHf+3AB7/nQBE/5sARv/
LAEf/1ABI/9EASv/PAEz/5QBO/9kAT//bAFD/2wBR/9sAUv/CAFP/2QBU/80AVf/fAFb/ywBX/+8
AWP/5AFz/6QCX/5sAmP+bAJn/mwCa/5sAm/+bAJz/mwCd/5sAnv/LAJ//0QCg/9EAof/RAKL/0QC
j/+UApP/1AKX/5QCm/+UAqP/CAKn/wgCq/8IAq//CAKz/wgCu/8IAR//5ALD/+QCx//kAsv/5ALX
/6QDj/+UA/v/CAAMAD//kABH/1ABa/8oAAQBL//MAEAAp/5cAEf+KAET/xwBF//oASP/cAJf/xwC
Y/8cAmf/HAJr/xwCb/8cAnP/HAJ3/xwCf/9wAoP/cAKH/3ACi/9wAEgAP/5oAEf+OAET/zABH//0
ASP/kAEv/5gBb/+0Al//MAJj/zACZ/8wAmv/MAJv/zACc/8wAnf/MAJ//5ACg/+QAof/kAKL/5AA
GAEj/6ACf/+gAoP/oAKH/6ACi/+gAtf/tAAoAEf/WAET/4wBd//cAl//jAJj/4wCZ/+MAMv/jAJv
/4wCc/+MANf/jAAEAm//wAAEBfAAcADMABf9DAAr/OAAL//YAJv/GACr/xgAy/9oANP/XADf/rAA
4/74AOf+YADr/qAA8/5UARP/mAEb/5gBH/+gASP/wAFL/5ABT/+oAVP/mAFb/7ABX/+oAWP/nAFn
/swBa/7MAXP/YAJf/5gCY/+YAmf/mAJr/5gCb/+YAnP/mAJ3/5gCe/+YAn//wAKD/8ACh//AAov/
wAKj/5ACp/+QAqv/kAKv/5ACs/+QArv/kAK//5wCw/+cAsf/nALL/5wC1/9gA/v/kAR7/1QF1/58
AAQCC//0AAQCFABcAAQCGAA8AAQCNAEEAAQCJAAEEAAQCT//cACQBF/9sASQAGAEr/+QBT/+QAV//
0AFn/4QBa/+IAXP/wALX/8AAKAEX/2wBJAAYASv/5AFP/5ABX//QAWf/hAFr/4gBc//AAL//6ALX
/8AAGABH/6QBL/94ATv/fAE//3wBc/+gAtf/oAAYAD//WABH/ygBF/9kAU//WAFn/3gBb/+IACQA
R/9YARP/jAJf/4wCY/+MAMf/jAJr/4wCb/+MANP/jAJ3/4wACAEB//QCe//0AAQCK/+0ACAAP/9c
AEf/GAEr//ABZ/+YAWv/iAFv/5wBc//IAtf/yAB4AD//LABD/0gAR/7wAHf/XAB7/3gAk/9gAMv/
YAET/4gBS/+UAU//GAHf/2AB4/9gAef/YAHR/2AB7/9gAfP/YAJf/4gCY/+IAmf/iAJr/4gCb/+I
AnP/iAJ3/4gCo/+UAqf/1AKr/5QCr/+UARp/1AK7/5QD+//UAAQEuABYAAQF0/6EAAwBW/7YAV//
uAXX/oQABAAAACgAiACIAAkRGTFQADmxhdG4ADgAE';

```

You can refer to our [React Tree Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Tree Grid example](#) to know how to present and manipulate data.

TreeMap

Getting Started

This section explains you the steps required to create a TreeMap control and demonstrate its basic usage.

Dependencies

The following list of minimum dependencies are required to use the TreeMap control:

```

`ts
|-- @syncfusion/ej2-react-treemap
|-- @syncfusion/ej2-treemap
|-- @syncfusion/ej2-base
|-- @syncfusion/ej2-data
|-- @syncfusion/ej2-pdf-export
|-- @syncfusion/ej2-svg-base
|-- @syncfusion/ej2-react-base
,

```

Installation and configuration

To get started with the React application, [create-react-app](#) can be used to setup the application. To install **create-react-app** run the following command.

`

```
npm install -g create-react-app
```

`

To create basic React application, run the following command.

`

```
create-react-app quickstart
```

`

Now, the application is created in the **quickstart** folder. Run the following command to navigate to the **quickstart** folder, and install the required **npm** packages.

`

```
cd quickstart
```

`

In the **quickstart** application, the Syncfusion component is added in the JavaScript file.

Creating a React application with TypeScript

To create React application with TypeScript, use the following command.

`

```
create-react-app quickstart --template typescript
```

`

Now, the application is created in the **quickstart** folder. Run the following command to navigate to the **quickstart** folder, and install the required **npm** packages.

`

```
cd quickstart
```

`

Adding Syncfusion packages

All the available Essential JS 2 packages are published in [npmjs.com](https://www.npmjs.com) public registry. To install TreeMap package, use the following command.

`

```
npm install @syncfusion/ej2-react-treemap --save
```

`

Add TreeMap to project

Now, the TreeMap component can be added in the application. To initialize the TreeMap control in the React application, import the TreeMap control in the **src/App.js**

or **src/App.tsx** as per the application. Please use the below code to include the TreeMap component in the application.

```
`ts
```

```
import * as React from 'react';
```

```
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    height= '350px'
    dataSource=[
      { Title: 'State wise International Airport count in South America', State: "Brazil", Count: 25 },
      { Title: 'State wise International Airport count in South America', State: "Colombia", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Argentina", Count: 9 },
      { Title: 'State wise International Airport count in South America', State: "Ecuador", Count: 7 },
      { Title: 'State wise International Airport count in South America', State: "Chile", Count: 6 },
    ]
    weightValuePath='Count'
    leafItemSettings= { {
      labelPath: 'State'
    }}
  >
</TreeMapComponent> );
}
export default App;
,
```

Run the application

The **TreeMap** control is now included in the **quickstart** application. Use the following command to run the application.

```
,
npm start
,
```

Module injection

The **TreeMap** control is segregated into individual feature-wise modules. To use a particular feature, inject its feature module using the `<Inject services={} />` method. You can find the modules available in **TreeMap** and their descriptions below.

- **TreeMapHighlight** - Inject this provider to use highlight feature.
- **TreeMapSelection** - Inject this provider to use selection feature.
- **TreeMapLegend** - Inject this provider to use legend feature.
- **TreeMapTooltip** - Inject this provider to use tooltip series.

Render TreeMap

This section explains how to render the TreeMap with data source. In the below example, TreeMap is modified to visualize international airport count in South America.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    height= '350px'
    dataSource=[
      { Title: 'State wise International Airport count in South America', State: "Brazil", Count: 25 },
      { Title: 'State wise International Airport count in South America', State: "Colombia", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Argentina", Count: 9 },
      { Title: 'State wise International Airport count in South America', State: "Ecuador", Count: 7 },
      { Title: 'State wise International Airport count in South America', State: "Chile", Count: 6 },
      { Title: 'State wise International Airport count in South America', State: "Peru", Count: 3 },
      { Title: 'State wise International Airport count in South America', State: "Venezuela", Count: 3 },
      { Title: 'State wise International Airport count in South America', State: "Bolivia", Count: 2 },
      { Title: 'State wise International Airport count in South America', State: "Paraguay", Count: 2 },
      { Title: 'State wise International Airport count in South America', State: "Uruguay", Count: 2 },
      { Title: 'State wise International Airport count in South America', State: "Falkland Islands", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "French Guiana", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Guyana", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Suriname", Count: 1 },
    ]
    weightValuePath='Count'
    leafItemSettings= { {
      labelPath: 'State'
    } }
  >
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
```

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    height= '350px'
    dataSource=[
      { Title: 'State wise International Airport count in South
America', State: "Brazil", Count: 25 },
      { Title: 'State wise International Airport count in South
America', State: "Colombia", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "Argentina", Count: 9 },
      { Title: 'State wise International Airport count in South
America', State: "Ecuador", Count: 7 },
      { Title: 'State wise International Airport count in South
America', State: "Chile", Count: 6 },
      { Title: 'State wise International Airport count in South
America', State: "Peru", Count: 3 },
      { Title: 'State wise International Airport count in South
America', State: "Venezuela", Count: 3 },
      { Title: 'State wise International Airport count in South
America', State: "Bolivia", Count: 2 },
      { Title: 'State wise International Airport count in South
America', State: "Paraguay", Count: 2 },
      { Title: 'State wise International Airport count in South
America', State: "Uruguay", Count: 2 },
      { Title: 'State wise International Airport count in South
America', State: "Falkland Islands", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "French Guiana", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "Guyana", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "Suriname", Count: 1 },
    ]}
    weightValuePath='Count'
    leafItemSettings= { {
      labelPath: 'State'
    }}
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

Here, the TreeMap is created with data source and the `weightValuePath` property is set to the data source's `count` field as the value. The leaf level items of TreeMap can be customized using `leafItemSettings`. `leafItemSettings` allows you to change properties such as `fill`, `border`, and `labelPosition`.

Apply color mapping

The color mapping feature supports customization of item colors based on the underlying value of item received from bound data source. Specify the field name from the values that have to be compared for the item in the `equalColorValuePath` or `rangeColorValuePath` property.

INDEX.JSX

```
{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return (
    <TreeMapComponent
      height="350px"
      dataSource=[
        {
          Title: 'State wise International Airport count in South America',
          State: 'Brazil',
          Count: 25,
          Brand: 'Ford',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Colombia',
          Count: 12,
          Brand: 'Maruti',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Argentina',
          Count: 9,
          Brand: 'Ford',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Ecuador',
          Count: 7,
          Brand: 'Ford',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Chile',
          Count: 6,
          Brand: 'Maruti',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Peru',
          Count: 3,
          Brand: 'Maruti',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Venezuela',
          Count: 3,
          Brand: 'Ford',
        }
      ]
    />
  );
}
```

```

    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Bolivia',
      Count: 2,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Paraguay',
      Count: 2,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Uruguay',
      Count: 2,
      Brand: 'Maruti',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Falkland Islands',
      Count: 1,
      Brand: 'Maruti',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'French Guiana',
      Count: 1,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Guyana',
      Count: 1,
      Brand: 'Maruti',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Suriname',
      Count: 1,
      Brand: 'Ford',
    },
  ],
  weightValuePath="Count"
  equalColorValuePath="Brand"
  leafItemSettings={{
    labelPath: 'State',
    colorMapping: [
      {
        value: 'Ford',
        color: '#634D6F',
      },
      {
        value: 'Maruti',
        color: '#B34D6D',
      },
    ],
  }},

```

```

    ],
  })
  </TreeMapComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return (
    <TreeMapComponent
      height="350px"
      dataSource=[
        {
          Title: 'State wise International Airport count in South America',
          State: 'Brazil',
          Count: 25,
          Brand: 'Ford',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Colombia',
          Count: 12,
          Brand: 'Maruti',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Argentina',
          Count: 9,
          Brand: 'Ford',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Ecuador',
          Count: 7,
          Brand: 'Ford',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Chile',
          Count: 6,
          Brand: 'Maruti',
        },
        {
          Title: 'State wise International Airport count in South America',
          State: 'Peru',
          Count: 3,
          Brand: 'Maruti',
        },
      ],
    >

```

```

    {
      Title: 'State wise International Airport count in South America',
      State: 'Venezuela',
      Count: 3,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Bolivia',
      Count: 2,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Paraguay',
      Count: 2,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Uruguay',
      Count: 2,
      Brand: 'Maruti',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Falkland Islands',
      Count: 1,
      Brand: 'Maruti',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'French Guiana',
      Count: 1,
      Brand: 'Ford',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Guyana',
      Count: 1,
      Brand: 'Maruti',
    },
    {
      Title: 'State wise International Airport count in South America',
      State: 'Suriname',
      Count: 1,
      Brand: 'Ford',
    },
  ]}
weightValuePath="Count"
equalColorValuePath="Brand"
leafItemSettings={{
  labelPath: 'State',
  colorMapping: [
    {
      value: 'Ford',
      color: '#634D6F',
    }
  ]
}}

```

```

        },
        {
            value: 'Maruti',
            color: '#B34D6D',
        },
    ],
    }}
  </TreeMapComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Enable legend

You can show legend for the TreeMap by setting the visible property to true in legendSettings object and injecting the `TreeMapLegend` module using the `<Inject services={[TreeMapLegend]} />`.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { Title: 'State wise International Airport count in South America', State: "Brazil", Count: 25 },
            { Title: 'State wise International Airport count in South America', State: "Colombia", Count: 1 },
            { Title: 'State wise International Airport count in South America', State: "Argentina", Count: 9 },
            { Title: 'State wise International Airport count in South America', State: "Ecuador", Count: 7 },
            { Title: 'State wise International Airport count in South America', State: "Chile", Count: 6 },
            { Title: 'State wise International Airport count in South America', State: "Peru", Count: 3 },
            { Title: 'State wise International Airport count in South America', State: "Venezuela", Count: 3 },
            { Title: 'State wise International Airport count in South America', State: "Bolivia", Count: 2 },
            { Title: 'State wise International Airport count in South America', State: "Paraguay", Count: 2 },
            { Title: 'State wise International Airport count in South America', State: "Uruguay", Count: 2 },
            { Title: 'State wise International Airport count in South America', State: "Falkland Islands", Count: 1 },
            { Title: 'State wise International Airport count in South America', State: "French Guiana", Count: 1 },
            { Title: 'State wise International Airport count in South America', State: "Guyana", Count: 1 },
            { Title: 'State wise International Airport count in South America', State: "Suriname", Count: 1 },

```



```

    ]}
    weightValuePath='Count'
    equalColorValuePath='Count'
    legendSettings={ {
      visible: true,
      position: 'Top',
      shape: 'Rectangle'
    }}
    leafItemSettings={{
      labelPath: 'State',
      colorMapping: [
        {
          value: 25,
          color: '#634D6F'
        },
        {
          value: 12,
          color: '#B34D6D'
        },
        {
          value: 9,
          color: '#557C5C'
        },
        {
          value: 7,
          color: '#44537F'
        },
        {
          value: 6,
          color: '#637392'
        },
        {
          value: 3,
          color: '#7C754D'
        },
        {
          value: 2,
          color: '#2E7A64'
        },
        {
          value: 1,
          color: '#95659A'
        }
      ]
    }}
  <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";

```

```

import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Title: 'State wise International Airport count in South America', State: "Brazil", Count: 25 },
      { Title: 'State wise International Airport count in South America', State: "Colombia", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Argentina", Count: 9 },
      { Title: 'State wise International Airport count in South America', State: "Ecuador", Count: 7 },
      { Title: 'State wise International Airport count in South America', State: "Chile", Count: 6 },
      { Title: 'State wise International Airport count in South America', State: "Peru", Count: 3 },
      { Title: 'State wise International Airport count in South America', State: "Venezuela", Count: 3 },
      { Title: 'State wise International Airport count in South America', State: "Bolivia", Count: 2 },
      { Title: 'State wise International Airport count in South America', State: "Paraguay", Count: 2 },
      { Title: 'State wise International Airport count in South America', State: "Uruguay", Count: 2 },
      { Title: 'State wise International Airport count in South America', State: "Falkland Islands", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "French Guiana", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Guyana", Count: 1 },
      { Title: 'State wise International Airport count in South America', State: "Suriname", Count: 1 },
    ]
    weightValuePath='Count'
    equalColorValuePath='Count'
    legendSettings={ {
      visible: true,
      position: 'Top',
      shape: 'Rectangle'
    } }
    leafItemSettings={{
      labelPath: 'State',
      colorMapping: [
        {
          value: 25,
          color: '#634D6F'
        },
        {
          value: 12,
          color: '#B34D6D'
        },
        {
          value: 9,
          color: '#557C5C'
        },
        {

```

```

        value: 7,
        color: '#44537F'
      },
      {
        value: 6,
        color: '#637392'
      },
      {
        value: 3,
        color: '#7C754D'
      },
      {
        value: 2,
        color: '#2E7A64'
      },
    ],
    {
      value: 1,
      color: '#95659A'
    },
  ]}]>
  <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Add labels

The labels are added to show additional information of the items in TreeMap. By default, the visibility of the label is true. This can be customized using the showLabels property in leafItemSettings.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Title: 'State wise International Airport count in South America',
        State: "Brazil", Count: 25 },
      { Title: 'State wise International Airport count in South America',
        State: "Colombia", Count: 1 },
      { Title: 'State wise International Airport count in South America',
        State: "Argentina", Count: 9 },
      { Title: 'State wise International Airport count in South America',
        State: "Ecuador", Count: 7 },
      { Title: 'State wise International Airport count in South America',
        State: "Chile", Count: 6 },
      { Title: 'State wise International Airport count in South America',
        State: "Peru", Count: 3 },
      { Title: 'State wise International Airport count in South America',
        State: "Venezuela", Count: 3 },
    ],

```

```

    { Title: 'State wise International Airport count in South America',
      State: "Bolivia", Count: 2 },
    { Title: 'State wise International Airport count in South America',
      State: "Paraguay", Count: 2 },
    { Title: 'State wise International Airport count in South America',
      State: "Uruguay", Count: 2 },
    { Title: 'State wise International Airport count in South America',
      State: "Falkland Islands", Count: 1 },
    { Title: 'State wise International Airport count in South America',
      State: "French Guiana", Count: 1 },
    { Title: 'State wise International Airport count in South America',
      State: "Guyana", Count: 1 },
    { Title: 'State wise International Airport count in South America',
      State: "Suriname", Count: 1 },
  ]}
  weightValuePath='Count'
  equalColorValuePath='Count'
  legendSettings={ {
    visible: true,
    position: 'Top',
    shape: 'Rectangle'
  }}
  leafItemSettings={ {
    showLabels: true,
    labelPath: 'State',
    labelPosition: 'Center',
    labelStyle: {
      color: 'white'
    },
    colorMapping: [
      {
        value: 25,
        color: '#634D6F'
      },
      {
        value: 12,
        color: '#B34D6D'
      },
      {
        value: 9,
        color: '#557C5C'
      },
      {
        value: 7,
        color: '#44537F'
      },
      {
        value: 6,
        color: '#637392'
      },
      {
        value: 3,
        color: '#7C754D'
      },
      {
        value: 2,
        color: '#2E7A64'
      }
    ]
  }

```

```

        },
        {
            value: 1,
            color: '#95659A'
        },
    ]}]>
    <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { Title: 'State wise International Airport count in South America',
              State: "Brazil", Count: 25 },
            { Title: 'State wise International Airport count in South America',
              State: "Colombia", Count: 1 },
            { Title: 'State wise International Airport count in South America',
              State: "Argentina", Count: 9 },
            { Title: 'State wise International Airport count in South America',
              State: "Ecuador", Count: 7 },
            { Title: 'State wise International Airport count in South America',
              State: "Chile", Count: 6 },
            { Title: 'State wise International Airport count in South America',
              State: "Peru", Count: 3 },
            { Title: 'State wise International Airport count in South America',
              State: "Venezuela", Count: 3 },
            { Title: 'State wise International Airport count in South America',
              State: "Bolivia", Count: 2 },
            { Title: 'State wise International Airport count in South America',
              State: "Paraguay", Count: 2 },
            { Title: 'State wise International Airport count in South America',
              State: "Uruguay", Count: 2 },
            { Title: 'State wise International Airport count in South America',
              State: "Falkland Islands", Count: 1 },
            { Title: 'State wise International Airport count in South America',
              State: "French Guiana", Count: 1 },
            { Title: 'State wise International Airport count in South America',
              State: "Guyana", Count: 1 },
            { Title: 'State wise International Airport count in South America',
              State: "Suriname", Count: 1 },
        ]}
        weightValuePath='Count'
        equalColorValuePath='Count'
        legendSettings={ {
            visible: true,

```

```

        position: 'Top',
        shape: 'Rectangle'
    }}
    leafItemSettings={ {
        showLabels: true,
        labelPath: 'State',
        labelPosition: 'Center',
        labelStyle: {
            color: 'white'
        },
        colorMapping: [
            {
                value: 25,
                color: '#634D6F'
            },
            {
                value: 12,
                color: '#B34D6D'
            },
            {
                value: 9,
                color: '#557C5C'
            },
            {
                value: 7,
                color: '#44537F'
            },
            {
                value: 6,
                color: '#637392'
            },
            {
                value: 3,
                color: '#7C754D'
            },
            {
                value: 2,
                color: '#2E7A64'
            },
            {
                value: 1,
                color: '#95659A'
            }
        ]
    }}
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

Enable tooltip

The tooltips are used when labels cannot display information due to space constraints. Tooltips can be enabled by setting the visible property to true in tooltipSettings object and injecting the `TreeMapTooltip` module using the `<Inject services={[TreeMapTooltip]} />`.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend, TreeMapTooltip } from
"@syncfusion/ej2-react-treemap";
export function App(){
  return ( <TreeMapComponent
    tooltipSettings={ {
      visible: true
    }}
    dataSource=[
      { Title: 'State wise International Airport count in South
America', State: "Brazil", Count: 25 },
      { Title: 'State wise International Airport count in South
America', State: "Colombia", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "Argentina", Count: 9 },
      { Title: 'State wise International Airport count in South
America', State: "Ecuador", Count: 7 },
      { Title: 'State wise International Airport count in South
America', State: "Chile", Count: 6 },
      { Title: 'State wise International Airport count in South
America', State: "Peru", Count: 3 },
      { Title: 'State wise International Airport count in South
America', State: "Venezuela", Count: 3 },
      { Title: 'State wise International Airport count in South
America', State: "Bolivia", Count: 2 },
      { Title: 'State wise International Airport count in South
America', State: "Paraguay", Count: 2 },
      { Title: 'State wise International Airport count in South
America', State: "Uruguay", Count: 2 },
      { Title: 'State wise International Airport count in South
America', State: "Falkland Islands", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "French Guiana", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "Guyana", Count: 1 },
      { Title: 'State wise International Airport count in South
America', State: "Suriname", Count: 1 },
    ]}
    weightValuePath='Count'
    equalColorValuePath='Count'
    legendSettings={ {
      visible: true,
      position: 'Top',
      shape: 'Rectangle'
    }}
    leafItemSettings={ {
      showLabels: true,
      labelPath: 'State',
      labelPosition: 'Center',
      colorMapping: [
        {
          value: 25,
          color: '#634D6F'
        }
      ]
    }}
  )
}
```



```

        },
        {
            value: 12,
            color: '#B34D6D'
        },
        {
            value: 9,
            color: '#557C5C'
        },
        {
            value: 7,
            color: '#44537F'
        },
        {
            value: 6,
            color: '#637392'
        },
        {
            value: 3,
            color: '#7C754D'
        },
        {
            value: 2,
            color: '#2E7A64'
        },
        {
            value: 1,
            color: '#95659A'
        },
    ]}]>
    <Inject services={[TreeMapTooltip, TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend, TreeMapTooltip } from
'@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        tooltipSettings={ {
            visible: true
        }}
        dataSource=[
            { Title: 'State wise International Airport count in South
America', State: "Brazil", Count: 25 },
            { Title: 'State wise International Airport count in South
America', State: "Colombia", Count: 1 },
            { Title: 'State wise International Airport count in South
America', State: "Argentina", Count: 9 },

```

```

        { Title: 'State wise International Airport count in South
America', State: "Ecuador", Count: 7 },
        { Title: 'State wise International Airport count in South
America', State: "Chile", Count: 6 },
        { Title: 'State wise International Airport count in South
America', State: "Peru", Count: 3 },
        { Title: 'State wise International Airport count in South
America', State: "Venezuela", Count: 3 },
        { Title: 'State wise International Airport count in South
America', State: "Bolivia", Count: 2 },
        { Title: 'State wise International Airport count in South
America', State: "Paraguay", Count: 2 },
        { Title: 'State wise International Airport count in South
America', State: "Uruguay", Count: 2 },
        { Title: 'State wise International Airport count in South
America', State: "Falkland Islands", Count: 1 },
        { Title: 'State wise International Airport count in South
America', State: "French Guiana", Count: 1 },
        { Title: 'State wise International Airport count in South
America', State: "Guyana", Count: 1 },
        { Title: 'State wise International Airport count in South
America', State: "Suriname", Count: 1 },
    ]}
    weightValuePath='Count'
    equalColorValuePath='Count'
    legendSettings={ {
        visible: true,
        position: 'Top',
        shape: 'Rectangle'
    }}
    leafItemSettings={ {
        showLabels: true,
        labelPath: 'State',
        labelPosition: 'Center',
        colorMapping: [
            {
                value: 25,
                color: '#634D6F'
            },
            {
                value: 12,
                color: '#B34D6D'
            },
            {
                value: 9,
                color: '#557C5C'
            },
            {
                value: 7,
                color: '#44537F'
            },
            {
                value: 6,
                color: '#637392'
            },
            {
                value: 3,

```

```

        color: '#7C754D'
      },
      {
        value: 2,
        color: '#2E7A64'
      },
      {
        value: 1,
        color: '#95659A'
      },
    ]}]>
    <Inject services={[TreeMapTooltip, TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Data binding in React Treemap component

The TreeMap control supports data binding using the `dataSource` property.

Populate data

The [dataSource](#) property accepts collection values as input. For example, a list of objects can be provided as input. Data can be given as either flat or hierarchical collection to the [dataSource](#) property.

<!-- markdownlint-disable MD036 -->

Flat collection

The following code shows, how to bind a flat collection as data source to the TreeMap control.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath='GDP'
    leafItemSettings={{
      labelPath: 'State'
    }}
  >
    </TreeMapComponent> );
}

```

```
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath='GDP'
    leafItemSettings={{
      labelPath: 'State'
    }}
  >
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

Hierarchical collection

The following code shows, how to bind a hierarchical collection as data source to the TreeMap control.

```
<!-- markdownlint-disable MD010 -->
```

```
{% raw %}
`ts
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {
  TreeMapComponent,
  LevelDirective,
  LevelsDirective,
} from '@syncfusion/ej2-react-treemap';
export function App() {
```

```
return (  
<TreeMapComponent  
  id="treemap"  
  dataSource={ [  
    {  
      Name: 'United States',  
      Sales: 28092,  
      Expense: 26000,  
      States: [  
        { Name: 'New York', Sales: 2353, Expense: 2000 },  
        { Name: 'Los Angeles', Sales: 3453, Expense: 3000 },  
        { Name: 'San Francisco', Sales: 8456, Expense: 8000 },  
        { Name: 'Chicago', Sales: 6785, Expense: 7000 },  
        { Name: 'Miami', Sales: 7045, Expense: 6000 },  
      ],  
    },  
    {  
      Name: 'Canada',  
      Sales: 19240,  
      Expense: 18500,  
      States: [  
        { Name: 'Toronto', Sales: 7045, Expense: 7000 },  
        { Name: 'Vancouver', Sales: 4352, Expense: 4000 },  
        { Name: 'Winnipeg', Sales: 7843, Expense: 7500 },  
      ],  
    },  
    {  
      Name: 'Mexico',  
      Sales: 16980,  
      Expense: 14500,  
      States: [  
        {  
          Name: 'Mexico City',
```

```
Sales: 7843,  
Expense: 6500,  
States1: [  
  { Name: 'Cancun1', Sales: 6683, Expense: 6000 },  
  { Name: 'Acapulco1', Sales: 2454, Expense: 2000 },  
],  
},  
{ Name: 'Cancun', Sales: 6683, Expense: 6000 },  
{ Name: 'Acapulco', Sales: 2454, Expense: 2000 },  
],  
},  
]]  
weightValuePath="Sales"  
leafItemSettings={{  
  labelPath: 'Name',  
}}
```

```
<LevelsDirective>  
  <LevelDirective  
    groupPath="States"  
    groupGap={3}  
    showHeader={true}  
    headerHeight={25}  
    showLabels={true}  
  />  
  <LevelDirective  
    groupPath="States1"  
    groupGap={3}  
    showHeader={true}  
    headerHeight={25}  
    showLabels={true}  
  />  
</LevelsDirective>
```

```

</TreeMapComponent>
);
}

const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
`

{% endraw %}

```

Layout in React Treemap component

Determine the visual representation of nodes belonging to all the TreeMap levels using the [layoutType](#) property.

Types of layout

The available layout types are,

- Squarified
- SliceAndDiceVertical
- SliceAndDiceHorizontal
- SliceAndDiceAuto

Squarified

The **Squarified** layout displays the nested rectangles based on aspect ratio in the TreeMap. The rectangles will be split based on the height and width of the parent. The default rendering type of layout is **Squarified**.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);

```



```
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

SliceAndDiceVertical

The **SliceAndDiceVertical** layout creates rectangles with high aspect ratio and displays items in a vertically sorted order.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    layoutType= 'SliceAndDiceVertical'
    weightValuePath= 'GDP'>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

```

    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    layoutType= 'SliceAndDiceVertical'
    weightValuePath= 'GDP'>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

[SliceAndDiceHorizontal](#)

The **SliceAndDiceHorizontal** layout creates rectangles with high aspect ratio and displays items in a horizontally sorted order.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
    ]
  >

```

```

        {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
        {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]}
    layoutType= 'SliceAndDiceHorizontal'
    weightValuePath= 'GDP'>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            {State:"United States", GDP:17946, percentage:11.08, Rank:1},
            {State:"China", GDP:10866, percentage: 28.42, Rank:2},
            {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
            {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
            {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
            {State:"France", GDP:2421, percentage:-9.69, Rank:6},
            {State:"India", GDP:2073, percentage:13.65, Rank:7},
            {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
            {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
            {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
        ]}
        layoutType= 'SliceAndDiceHorizontal'
        weightValuePath= 'GDP'>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

[SliceAndDiceAuto](#)

The **SliceAndDiceAuto** layout creates rectangles with high aspect ratio and display items sorted both horizontally and vertically.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            {State:"United States", GDP:17946, percentage:11.08, Rank:1},
            {State:"China", GDP:10866, percentage: 28.42, Rank:2},
            {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},

```

```

        {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
        {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
        {State:"France", GDP:2421, percentage:-9.69, Rank:6},
        {State:"India", GDP:2073, percentage:13.65, Rank:7},
        {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
        {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
        {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
      ]}
      layoutType= 'SliceAndDiceAuto'
      weightValuePath= 'GDP'>
    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]}
    layoutType= 'SliceAndDiceAuto'
    weightValuePath= 'GDP'>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Leaf item in React Treemap component

A leaf item defines a visualized data element and does not contain child nodes but contains parent node if the levels are specified in the TreeMap.

Leaf label

Label is represented by item name or value. Label will be appeared by specifying the [labelPath](#) property and customize the label style using the [labelStyle](#) property.

INDEX.JSX

```
{% raw %}
```

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'
    leafItemSettings= {{
      labelPath: 'State',
      labelStyle: {
        color: '#000000'
      },
      border: {
        color: '#000000',
        width: 0.5
      }
    }}
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'
    leafItemSettings= {{

```

```

        labelPath: 'State',
        labelStyle: {
            color: '#000000'
        },
        border: {
            color: '#000000',
            width: 0.5
        }
    }
}}>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

<!-- markdownlint-disable MD036 -->

Label position and format

Positioning the leaf item label using the [labelPosition](#) property and the text format can be customized by specifying data source properties name in the [labelFormat](#) property.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            {State:"United States", GDP:17946, percentage:11.08, Rank:1},
            {State:"China", GDP:10866, percentage: 28.42, Rank:2},
            {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
            {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
            {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
            {State:"France", GDP:2421, percentage:-9.69, Rank:6},
            {State:"India", GDP:2073, percentage:13.65, Rank:7},
            {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
            {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
            {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
        ]
        weightValuePath= 'GDP'
        leafItemSettings= {{
            labelPath: 'State',
            labelPosition:'TopCenter',
            labelFormat: '$${State}<br>$$${GDP} Trillion<br>($${percentage} %)',
        }}
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}

```

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'
    leafItemSettings= {{
      labelPath: 'State',
      labelPosition: 'TopCenter',
      labelFormat: '$ {State}<br>$$ {GDP} Trillion<br>($ {percentage} %)',
    }}
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

<!-- markdownlint-disable MD036 -->

Label template and position

Specifies the template of leaf item label and position of the template to be customized using [labelTemplate](#) and [templatePosition](#) properties.

{% raw %}

`ts

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Sport: "Swimming", Gold: 16, GameImage: 'swimming.svg', ItemHeight: "180px", ItemWidth: "180px" },
      { Sport: "Athletics", Gold: 13, GameImage: 'athletics.svg', ItemHeight: "70px", ItemWidth: "70px" },
      { Sport: "Gymnastics", Gold: 4, GameImage: 'gymnastics.svg', ItemHeight: "80px", ItemWidth: "80px" },
      { Sport: "Cycling", Gold: 2, GameImage: 'cycling.svg', ItemHeight: "50px", ItemWidth: "50px" },
    ]
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);

```



```

{ Sport: "Wrestling", Gold: 2, GamelImage: 'wrestling.svg', ItemHeight: "60px", ItemWidth: "50px" },
{ Sport: "Basketball", Gold: 2, GamelImage: 'basketball.svg', ItemHeight: "50px", ItemWidth: "50px" },
{ Sport: "Boxing", Gold: 1, GamelImage: 'boxing.svg', ItemHeight: "40px", ItemWidth: "30px" },
{ Sport: "Tennis", Gold: 1, GamelImage: 'tennis.svg', ItemHeight: "40px", ItemWidth: "40px" },
{ Sport: "Judo", Gold: 1, GamelImage: 'judo.svg', ItemHeight: "40px", ItemWidth: "40px" },
{ Sport: "Rowing", Gold: 1, GamelImage: 'rowing.svg', ItemHeight: "40px", ItemWidth: "40px" },
{ Sport: "Shooting", Gold: 1, GamelImage: 'shooting.svg', ItemHeight: "40px", ItemWidth: "40px" },
{ Sport: "Triathlon", Gold: 1, GamelImage: 'triathlon.svg', ItemHeight: "40px", ItemWidth: "40px" },
{ Sport: "Water polo", Gold: 1, GamelImage: 'water-polo.svg', ItemHeight: "40px", ItemWidth: "40px" }
}]
weightValuePath= 'Gold'
leafItemSettings= {{
labelPath: 'Sport',
fill: '#993399',
templatePosition: 'Center',
labelTemplate: '<div style="pointer-events: none;"></img></div>'
}}>
</TreeMapComponent> );
}

const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
`

```

```
{% endraw %}
```

```
<!-- markdownlint-disable MD036 -->
```

Item gap

The [gap](#) property is used to separate an item from another item. Each item rectangle is split into equal space with specified gap.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[

```

```

        {State:"United States", GDP:17946, percentage:11.08, Rank:1},
        {State:"China", GDP:10866, percentage: 28.42, Rank:2},
        {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
        {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
        {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
        {State:"France", GDP:2421, percentage:-9.69, Rank:6},
        {State:"India", GDP:2073, percentage:13.65, Rank:7},
        {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
        {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
        {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]}
    weightValuePath= 'GDP'
    leafItemSettings= {{
        labelPath: 'State',
        gap:20
    }}>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            {State:"United States", GDP:17946, percentage:11.08, Rank:1},
            {State:"China", GDP:10866, percentage: 28.42, Rank:2},
            {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
            {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
            {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
            {State:"France", GDP:2421, percentage:-9.69, Rank:6},
            {State:"India", GDP:2073, percentage:13.65, Rank:7},
            {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
            {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
            {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
        ]}
        weightValuePath= 'GDP'
        leafItemSettings= {{
            labelPath: 'State',
            gap:20
        }}>
        </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Levels in React Treemap component

TreeMap supports **n** number of levels and each level is separated by using the [groupPath](#) property.

<!-- markdownlint-disable MD036 -->

Group path

The [groupPath](#) property is used to separate each level of the TreeMap by specifying the property from the data source.

In the following example, three levels are added and each level is configured using the [groupPath](#) property.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
    ]
  )
}
```

```

    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
      <LevelDirective groupPath='Country' border={{ color: 'black',
width: 0.5 }} />
      <LevelDirective groupPath='JobDescription' border={{ color:
'black', width: 0.5 }} />
      <LevelDirective groupPath='JobGroup' border={{ color: 'black',
width: 0.5 }} />
    </LevelsDirective>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },

```

```

    { Category: 'Employees', Country: 'UK', JobDescription: 'HR
    Executives', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'UK', JobDescription:
    'Accounts', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'France', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'France', JobDescription:
    'Marketing', EmployeesCount: 100 }
  ]}
  palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
  "#009688"}]
  weightValuePath= 'EmployeesCount'>
  <LevelsDirective>
    <LevelDirective groupPath='Country' border={{ color: 'black',
width: 0.5 }} />
    <LevelDirective groupPath='JobDescription' border={{ color:
'black', width: 0.5 }} />
    <LevelDirective groupPath='JobGroup' border={{ color: 'black',
width: 0.5 }} />
  </LevelsDirective>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

<!-- markdownlint-disable MD036 -->

Group gap

The [groupGap](#) property is used to separate an item from each group or another item to differentiate the levels mentioned in the TreeMap.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },

```

```

        { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
        { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
        { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
        { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
        { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
        { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
        { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
        { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
        { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
        { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
        { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
    ]}
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
        <LevelDirective groupPath='Country' groupGap={10} border={{
color: 'black', width: 0.5 }} />
        <LevelDirective groupPath='JobDescription' groupGap={10}
border={{ color: 'black', width: 0.5 }} />
        <LevelDirective groupPath='JobGroup' groupGap={10} border={{
color: 'black', width: 0.5 }} />
    </LevelsDirective>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
            { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
            { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },

```

```

    { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
    { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
    { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
    { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
  ]}
  palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
  weightValuePath= 'EmployeesCount'>
<LevelsDirective>
  <LevelDirective groupPath='Country' groupGap={10} border={{
color: 'black', width: 0.5 }} />
  <LevelDirective groupPath='JobDescription' groupGap={10}
border={{ color: 'black', width: 0.5 }} />
  <LevelDirective groupPath='JobGroup' groupGap={10} border={{
color: 'black', width: 0.5 }} />
</LevelsDirective>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

<!-- markdownlint-disable MD036 -->

Header format and Alignment

Customize header using the [headerFormat](#) property in which fields are mapping from the dataSource and align header using the [headerAlignment](#) property.

INDEX.JSX


```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
    ]}
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
      <LevelDirective groupPath='Country' headerFormat='${Country}-
${EmployeesCount}' headerAlignment='Center' border={{ color: 'black', width:
0.5 }} />
      <LevelDirective groupPath='JobDescription'
headerFormat='${JobDescription}-${EmployeesCount}' headerAlignment='Far'
border={{ color: 'black', width: 0.5 }} />
    </LevelsDirective>
  </TreeMapComponent>

```

```

        <LevelDirective groupPath='JobGroup' headerFormat='${JobGroup}-${
        ${EmployeesCount}' headerAlignment='Near' border={{ color: 'black', width:
        0.5 }} />
        </LevelsDirective>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
"@syncfusion/ej2-react-treemap";
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
            JobGroup: 'Executive', EmployeesCount: 20 },
            { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
            JobGroup: 'Analyst', EmployeesCount: 30 },
            { Category: 'Employees', Country: 'USA', JobDescription:
            'Marketing', EmployeesCount: 40 },
            { Category: 'Employees', Country: 'USA', JobDescription:
            'Management', EmployeesCount: 80 },
            { Category: 'Employees', Country: 'India', JobDescription:
            'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
            { Category: 'Employees', Country: 'India', JobDescription: 'HR
            Executives', EmployeesCount: 30 },
            { Category: 'Employees', Country: 'India', JobDescription:
            'Accounts', EmployeesCount: 40 },
            { Category: 'Employees', Country: 'Germany', JobDescription:
            'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
            { Category: 'Employees', Country: 'Germany', JobDescription:
            'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
            { Category: 'Employees', Country: 'Germany', JobDescription:
            'Marketing', EmployeesCount: 70 },
            { Category: 'Employees', Country: 'Germany', JobDescription:
            'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
            { Category: 'Employees', Country: 'Germany', JobDescription:
            'Management', EmployeesCount: 10 },
            { Category: 'Employees', Country: 'Germany', JobDescription:
            'Accounts', EmployeesCount: 20 },
            { Category: 'Employees', Country: 'UK', JobDescription:
            'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
            { Category: 'Employees', Country: 'UK', JobDescription: 'HR
            Executives', EmployeesCount: 50 },
            { Category: 'Employees', Country: 'UK', JobDescription:
            'Accounts', EmployeesCount: 60 },
            { Category: 'Employees', Country: 'France', JobDescription:
            'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
            { Category: 'Employees', Country: 'France', JobDescription:
            'Marketing', EmployeesCount: 100 }
        ]
    >

```

```

    ]}
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
      <LevelDirective groupPath='Country' headerFormat='${Country}-
${EmployeesCount}' headerAlignment='Center' border={{ color: 'black', width:
0.5 }} />
      <LevelDirective groupPath='JobDescription'
headerFormat='${JobDescription}-${EmployeesCount}' headerAlignment='Far'
border={{ color: 'black', width: 0.5 }} />
      <LevelDirective groupPath='JobGroup' headerFormat='${JobGroup}-
${EmployeesCount}' headerAlignment='Near' border={{ color: 'black', width:
0.5 }} />
    </LevelsDirective>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Header height and style

Customize the font color, family, weight, opacity and size using the [headerStyle](#). Based on the font settings, the header height is given using the [headerHeight](#) property in [levels](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
"@syncfusion/ej2-react-treemap";
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },

```

```

    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Management', EmployeesCount: 10 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Accounts', EmployeesCount: 20 },
    { Category: 'Employees', Country: 'UK', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'UK', JobDescription: 'HR
    Executives', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'UK', JobDescription:
    'Accounts', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'France', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'France', JobDescription:
    'Marketing', EmployeesCount: 100 }
  ]}
  palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
  "#009688"}]
  weightValuePath= 'EmployeesCount'>
  <LevelsDirective>
    <LevelDirective groupPath='Country' headerHeight={35}
    headerStyle={{ size:'15px' }} border={{ color: 'black', width: 0.5 }} />
    <LevelDirective groupPath='JobDescription' headerHeight={45}
    headerStyle={{ size:'15px' }} border={{ color: 'black', width: 0.5 }} />
    <LevelDirective groupPath='JobGroup' headerHeight={40}
    headerStyle={{ size:'15px' }} border={{ color: 'black', width: 0.5 }} />
  </LevelsDirective>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
      JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
      JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
      'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
      'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
      'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
      Executives', EmployeesCount: 30 },
    ]
  >

```

```

    { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
    { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
  ]}
  palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
  weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
      <LevelDirective groupPath='Country' headerHeight={35}
headerStyle={{ size: '15px' }} border={{ color: 'black', width: 0.5 }} />
      <LevelDirective groupPath='JobDescription' headerHeight={45}
headerStyle={{ size: '15px' }} border={{ color: 'black', width: 0.5 }} />
      <LevelDirective groupPath='JobGroup' headerHeight={40}
headerStyle={{ size: '15px' }} border={{ color: 'black', width: 0.5 }} />
    </LevelsDirective>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Header template and position

The TreeMap header supports to customize header of each item using the [headerTemplate](#) property. It uses Essential JS2 Template engine to render the elements. You can position the template using the [templatePosition](#) property.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent

```

```

    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
        JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
        JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
        'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
        'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
        'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
        Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
        'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
        'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
        'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
        'Marketing', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
        'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
        'Management', EmployeesCount: 10 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
        'Accounts', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'UK', JobDescription:
        'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'UK', JobDescription: 'HR
        Executives', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'UK', JobDescription:
        'Accounts', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'France', JobDescription:
        'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'France', JobDescription:
        'Marketing', EmployeesCount: 100 }
    ]
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
      "#009688"}]
    weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
      <LevelDirective groupPath='Country'
headerTemplate='<div>{{:Country}}</div>' headerAlignment='Center' border={{
color: 'black', width: 0.5 }} />
      <LevelDirective groupPath='JobDescription'
headerTemplate='<div>{{:JobDescription}}</div>' headerAlignment='Center'
border={{ color: 'black', width: 0.5 }} />
      <LevelDirective groupPath='JobGroup'
headerTemplate='<div>{{:JobGroup}}</div>' headerAlignment='Far' border={{
color: 'black', width: 0.5 }} />
    </LevelsDirective>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
    ]
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    weightValuePath= 'EmployeesCount'>
    <LevelsDirective>
      <LevelDirective groupPath='Country'
headerTemplate='<div>{{:Country}}</div>' headerAlignment='Center' border={{
color: 'black', width: 0.5 }} />

```



```

    <LevelDirective groupPath='JobDescription'
    headerTemplate='<div>{{:JobDescription}}</div>' headerAlignment='Center'
    border={{ color: 'black', width: 0.5 }} />
    <LevelDirective groupPath='JobGroup'
    headerTemplate='<div>{{:JobGroup}}</div>' headerAlignment='Far' border={{
    color: 'black', width: 0.5 }} />
  </LevelsDirective>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Color mapping in React Treemap component

Color mapping is used to customize the color for each group or item based on the specified types. The following options are available to customize the group and leaf items in the TreeMap.

Range color mapping

Range color mapping is used to apply color to the items by giving specific ranges in the DataSource, and it should be specifying the data source properties to the [rangeColorValuePath](#). The color mapping ranges to be specified in the [from](#) and [to](#) properties of the [colorMapping](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath='count'
    rangeColorValuePath='count'
    leafItemSettings={{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:3000,
          color:'orange'
        },
        {
          from:3000,
          to:5000,
          color:'green'
        }
      ]
    }}
  > )
}

```

```

    }}>
    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath='count'
    rangeColorValuePath='count'
    leafItemSettings={{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:3000,
          color:'orange'
        },
        {
          from:3000,
          to:5000,
          color:'green'
        }
      ]
    })
  >
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Equal color mapping

Equal color mapping is used to fill colors to each item by specifying equal value present in the data source, that can be specified in the [equalColorValuePath](#) property.

INDEX.JSX

```

{% raw %}
import * as React from "react";

```

```

import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { Car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'
    equalColorValuePath='Brand'
    leafItemSettings={
      {
        labelPath: 'Car',
        colorMapping:[
          {
            value:'Ford',
            color:'green'
          },
          {
            value:'Audi',
            color:'red'
          },
          {
            value:'Maruti',
            color:'orange'
          }
        ]
      }
    ]
  > ) ;
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { Car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'

```

```

        equalColorValuePath='Brand'
        leafItemSettings={{
            labelPath: 'Car',
            colorMapping:[
                {
                    value:'Ford',
                    color:'green'
                },
                {
                    value:'Audi',
                    color:'red'
                },
                {
                    value:'Maruti',
                    color:'orange'
                }
            ]
        }}
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

Desaturation color mapping

Desaturation color mapping is used to apply colors to the items based on the [minOpacity](#) and [maxOpacity](#) properties in the [colorMapping](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { fruit:'Apple', count:5000 },
            { fruit:'Mango', count:3000 },
            { fruit:'Orange', count:2300 },
            { fruit:'Banana', count:500 },
            { fruit:'Grape', count:4300 },
            { fruit:'Papaya', count:1200 },
            { fruit:'Melon', count:4500 }
        ]
        weightValuePath='count'
        rangeColorValuePath='count'
        leafItemSettings={{
            labelPath: 'fruit',
            colorMapping:[
                {
                    from:500,
                    to:3000,
                    minOpacity:0.2,
                    maxOpacity:0.5,
                    color:'orange'
                }
            ]
        }}
    >

```

```

        },
        {
            from: 3000,
            to: 5000,
            minOpacity: 0.5,
            maxOpacity: 0.8,
            color: 'green'
        }
    ]
    }>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { fruit: 'Apple', count: 5000 },
            { fruit: 'Mango', count: 3000 },
            { fruit: 'Orange', count: 2300 },
            { fruit: 'Banana', count: 500 },
            { fruit: 'Grape', count: 4300 },
            { fruit: 'Papaya', count: 1200 },
            { fruit: 'Melon', count: 4500 }
        ]
        weightValuePath='count'
        rangeColorValuePath='count'
        leafItemSettings={
            {
                labelPath: 'fruit',
                colorMapping: [
                    {
                        from: 500,
                        to: 3000,
                        minOpacity: 0.2,
                        maxOpacity: 0.5,
                        color: 'orange'
                    },
                    {
                        from: 3000,
                        to: 5000,
                        minOpacity: 0.5,
                        maxOpacity: 0.8,
                        color: 'green'
                    }
                ]
            }
        ]
    >
    </TreeMapComponent> );
}

```

```
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

Palette color mapping

The palette color mapping is used to fill the color to each group or leaf item by given colors in the [palette](#) property.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi',count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    palette= [['red','green']]
    weightValuePath='count'
    leafItemSettings={{
      labelPath: 'Car'
    }}
  > </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi',count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    palette= [['red','green']]
    weightValuePath='count'
  > </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

```

        leafItemSettings={{
          labelPath: 'Car'
        }}>
      </TreeMapComponent> );
    }
    const root = ReactDOM.createRoot(document.getElementById('container'));
    root.render(<App />);
    {% endraw %}

```

Desaturation with multiple colors

Multiple colors are used as gradient effect to specific shapes based on the ranges in datasource. By using [color](#) property, you can set n number of colors.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath='count'
    rangeColorValuePath='count'
    leafItemSettings={{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:2500,
          color:['orange','pink']
        },
        {
          from:3000,
          to:5000,
          color:['green','red','blue']
        }
      ]
    }}>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}

```



```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath='count'
    rangeColorValuePath='count'
    leafItemSettings={
      {
        labelPath: 'fruit',
        colorMapping:[
          {
            from:500,
            to:2500,
            color:['orange','pink']
          },
          {
            from:3000,
            to:5000,
            color:['green','red','blue']
          }
        ]
      }
    ]
  >
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Color for items excluded from color mapping

Get the excluded ranges from data source using the color mapping and apply the specific color to those items, without specifying the [from](#) and [to](#) properties.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]

```

```

    ]}
    weightValuePath='count'
    rangeColorValuePath='count'
    leafItemSettings={{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:2500,
          color:'orange'
        },
        {
          from:3000,
          to:4000,
          color:'green'
        },
        {
          color:'red'
        }
      ]}
  }}>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath='count'
    rangeColorValuePath='count'
    leafItemSettings={{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:2500,
          color:'orange'
        },
        {
          from:3000,
          to:4000,

```

```

        color: 'green'
      },
      {
        color: 'red'
      }
    ]
  }
}
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Data label in React Treemap component

Data Labels are used to identify the name of items or groups in the TreeMap component. Data Labels will be shown by specifying the data source properties in the [labelPath](#) of the [leafItemSettings](#).

Format

Customize the labels for each item using the [labelFormat](#) property in the [leafItemSettings](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car: 'Mustang', Brand: 'Ford', count: 232 },
      { Car: 'EcoSport', Brand: 'Ford', count: 121 },
      { Car: 'Swift', Brand: 'Maruti', count: 143 },
      { Car: 'Baleno', Brand: 'Maruti', count: 454 },
      { Car: 'Vitara Brezza', Brand: 'Maruti', count: 545 },
      { Car: 'A3 Cabriolet', Brand: 'Audi', count: 123 },
      { Car: 'RS7 Sportback', Brand: 'Audi', count: 523 }
    ]
    weightValuePath='count'
    leafItemSettings={
      {
        labelPath: 'Car',
        labelFormat: '${Car}-${Brand}'
      }
    }
  > );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent

```

```

    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'
    leafItemSettings={
      {
        labelPath: 'Car',
        labelFormat: '$ {Car}- ${Brand}'
      }
    }
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Template

The template supports customizing labels of each leaf node using the [labelTemplate](#) property. It uses Essential JS2 template engine to render elements and the position of templates can be customize using the [templatePosition](#) property.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'
    leafItemSettings={
      {
        labelPath: 'Car',
        labelTemplate: '<div>{{:Car}}-{{:Brand}}</div>',
        templatePosition: 'Center'
      }
    }
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi',count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'
    leafItemSettings={{
      labelPath: 'Car',
      labelTemplate:'<div>{{:Car}}-{{:Brand}}</div>',
      templatePosition:'Center'
    }}
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

InterSectAction

When the label size in each item exceeds the actual size, use the [interSectAction](#) property in the [leafItemSettings](#) to customise the labels.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi',count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'
    leafItemSettings={{
      labelPath: 'Car',
      labelFormat:'${Car}-${Brand}',
      interSectAction:'WrapByWord'
    }}
  </TreeMapComponent> );
}
{% endraw %}
```

```
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath='count'
    leafItemSettings={
      {
        labelPath: 'Car',
        labelFormat: '${Car}-${Brand}',
        interSectAction: 'WrapByWord'
      }
    }
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

Legend in React Treemap component

Legend is used to provide valuable information for interpreting what the TreeMap displays. The legends can be represented in various colors, shapes or other identifiers based on the data.

Position and alignment

Legend position is used to place legend in various positions. Based on the legend position, the legend item will be aligned. For example, if the position is top or bottom, the legend items are placed by rows. If the position is left or right, the legend items are placed by columns.

The following options are available to customize the legend position:

- Top
- Bottom
- Left
- Right
- Float

INDEX.JSX

```
{% raw %}
```

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    rangeColorValuePath='count'
    legendSettings= {{
      visible: true,
      position: 'Top'
    }}
    leafItemSettings= {{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:3000,
          color:'orange'
        },
        {
          from:3000,
          to:5000,
          color:'green'
        }
      ]
    }}
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },

```



```

        { fruit:'Banana', count:500 },
        { fruit:'Grape', count:4300 },
        { fruit:'Papaya', count:1200 },
        { fruit:'Melon', count:4500 }
    ]}
    weightValuePath= 'count'
    rangeColorValuePath='count'
    legendSettings= {{
        visible: true,
        position: 'Top'
    }}
    leafItemSettings= {{
        labelPath: 'fruit',
        colorMapping:[
            {
                from:500,
                to:3000,
                color:'orange'
            },
            {
                from:3000,
                to:5000,
                color:'green'
            }
        ]
    }}>
    <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Legend Alignment is used to align the legend items in specific location. The following options are available to customize the legend alignment:

- Near
- Center
- Far

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { fruit:'Apple', count:5000 },
            { fruit:'Mango', count:3000 },
            { fruit:'Orange', count:2300 },
            { fruit:'Banana', count:500 },
            { fruit:'Grape', count:4300 },

```

```

        { fruit:'Papaya', count:1200 },
        { fruit:'Melon', count:4500 }
    ]}
    weightValuePath= 'count'
    rangeColorValuePath='count'
    legendSettings= {{
        visible: true,
        alignment: 'Far'
    }}
    leafItemSettings= {{
        labelPath: 'fruit',
        colorMapping:[
            {
                from:500,
                to:3000,
                color:'orange'
            },
            {
                from:3000,
                to:5000,
                color:'green'
            }
        ]
    }}
    <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { fruit:'Apple', count:5000 },
            { fruit:'Mango', count:3000 },
            { fruit:'Orange', count:2300 },
            { fruit:'Banana', count:500 },
            { fruit:'Grape', count:4300 },
            { fruit:'Papaya', count:1200 },
            { fruit:'Melon', count:4500 }
        ]}
        weightValuePath= 'count'
        rangeColorValuePath='count'
        legendSettings= {{
            visible: true,
            alignment: 'Far'
        }}
        leafItemSettings= {{

```

```

        labelPath: 'fruit',
        colorMapping:[
            {
                from:500,
                to:3000,
                color:'orange'
            },
            {
                from:3000,
                to:5000,
                color:'green'
            }
        ]
    }>
    <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Legend mode

The TreeMap control supports two different types of legend rendering modes such as **Default** and **Interactive**.

<!-- markdownlint-disable MD036 -->

Default mode

In default mode, the legends have symbols with legend labels that are used to identify the items in the TreeMap.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { Car:'Mustang', Brand:'Ford', count:232 },
            { Car:'EcoSport', Brand:'Ford', count:121 },
            { Car:'Swift', Brand:'Maruti', count:143 },
            { Car:'Baleno', Brand:'Maruti', count:454 },
            { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
            { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
            { car:'RS7 Sportback', Brand:'Audi', count:523 }
        ]
        weightValuePath= 'count'
        equalColorValuePath='Brand'
        legendSettings= {{
            visible: true,
            position:'Top',
            border: {color:'black',width:2}
        }}
    >

```

```

    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping:[
        {
          value: 'Ford',
          color: 'green'
        },
        {
          value: 'Audi',
          color: 'red'
        },
        {
          value: 'Maruti',
          color: 'orange'
        }
      ]
    }}>
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car: 'Mustang', Brand: 'Ford', count: 232 },
      { Car: 'EcoSport', Brand: 'Ford', count: 121 },
      { Car: 'Swift', Brand: 'Maruti', count: 143 },
      { Car: 'Baleno', Brand: 'Maruti', count: 454 },
      { Car: 'Vitara Brezza', Brand: 'Maruti', count: 545 },
      { Car: 'A3 Cabriolet', Brand: 'Audi', count: 123 },
      { Car: 'RS7 Sportback', Brand: 'Audi', count: 523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath='Brand'
    legendSettings= {{
      visible: true,
      position: 'Top',
      border: {color: 'black', width: 2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping:[
        {
          value: 'Ford',
          color: 'green'
        },

```

```

        {
          value: 'Audi',
          color: 'red'
        },
        {
          value: 'Maruti',
          color: 'orange'
        }
      ]
    }
  }
}
<Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

<!-- markdownlint-disable MD036 -->

Interactive mode

The legends can be made interactive with an arrow mark that indicates exact range color in the legend when the mouse hovers on the TreeMap item. Enable this option by setting the [mode](#) property in the [legendSettings](#) to **Interactive**.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car: 'Mustang', Brand: 'Ford', count: 232 },
      { Car: 'EcoSport', Brand: 'Ford', count: 121 },
      { Car: 'Swift', Brand: 'Maruti', count: 143 },
      { Car: 'Baleno', Brand: 'Maruti', count: 454 },
      { Car: 'Vitara Brezza', Brand: 'Maruti', count: 545 },
      { Car: 'A3 Cabriolet', Brand: 'Audi', count: 123 },
      { Car: 'RS7 Sportback', Brand: 'Audi', count: 523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath='Brand'
    legendSettings= {{
      visible: true,
      mode: 'Interactive',
      position: 'Top',
      border: {color: 'black', width: 2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping: [
        {
          value: 'Ford',
          color: 'green'

```

```

        },
        {
            value: 'Audi',
            color: 'red'
        },
        {
            value: 'Maruti',
            color: 'orange'
        }
    ]
  } >
  <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car: 'Mustang', Brand: 'Ford', count: 232 },
      { Car: 'EcoSport', Brand: 'Ford', count: 121 },
      { Car: 'Swift', Brand: 'Maruti', count: 143 },
      { Car: 'Baleno', Brand: 'Maruti', count: 454 },
      { Car: 'Vitara Brezza', Brand: 'Maruti', count: 545 },
      { Car: 'A3 Cabriolet', Brand: 'Audi', count: 123 },
      { Car: 'RS7 Sportback', Brand: 'Audi', count: 523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath= 'Brand'
    legendSettings= {{
      visible: true,
      mode: 'Interactive',
      position: 'Top',
      border: {color: 'black', width: 2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping: [
        {
          value: 'Ford',
          color: 'green'
        },
        {
          value: 'Audi',
          color: 'red'
        }
      ]
    }}
  >

```

```

        value: 'Maruti',
        color: 'orange'
      }
    ]
  }>
  <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Legend size

Customize the legend size by modifying the [height](#) and [width](#) properties in the [legendSettings](#). It accepts values in both percentage and pixel.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car: 'Mustang', Brand: 'Ford', count: 232 },
      { Car: 'EcoSport', Brand: 'Ford', count: 121 },
      { Car: 'Swift', Brand: 'Maruti', count: 143 },
      { Car: 'Baleno', Brand: 'Maruti', count: 454 },
      { Car: 'Vitara Brezza', Brand: 'Maruti', count: 545 },
      { Car: 'A3 Cabriolet', Brand: 'Audi', count: 123 },
      { Car: 'RS7 Sportback', Brand: 'Audi', count: 523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath= 'Brand'
    legendSettings= {{
      visible: true,
      height: '50px',
      width: '200px',
      position: 'Top',
      border: {color: 'black', width: 2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping:[
        {
          value: 'Ford',
          color: 'green'
        },
        {
          value: 'Audi',
          color: 'red'
        },
        {
          value: 'Maruti',

```



```

        color: 'orange'
      }
    ]
  }>
  <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car: 'Mustang', Brand: 'Ford', count: 232 },
      { Car: 'EcoSport', Brand: 'Ford', count: 121 },
      { Car: 'Swift', Brand: 'Maruti', count: 143 },
      { Car: 'Baleno', Brand: 'Maruti', count: 454 },
      { Car: 'Vitara Brezza', Brand: 'Maruti', count: 545 },
      { Car: 'A3 Cabriolet', Brand: 'Audi', count: 123 },
      { Car: 'RS7 Sportback', Brand: 'Audi', count: 523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath= 'Brand'
    legendSettings= {{
      visible: true,
      height: '50px',
      width: '200px',
      position: 'Top',
      border: {color: 'black', width: 2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping: [
        {
          value: 'Ford',
          color: 'green'
        },
        {
          value: 'Audi',
          color: 'red'
        },
        {
          value: 'Maruti',
          color: 'orange'
        }
      ]
    }}
  >
  <Inject services={[TreeMapLegend]} />

```

```

    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% endraw %}

```

Paging support

TreeMap support legend paging, if the legend items cannot be placed within the provided [height](#) and [width](#) of the legend.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath='Brand'
    legendSettings= {{
      visible: true,
      height:'50px',
      width:'100px',
      border: {color:'black',width:2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping:[
        {
          value:'Ford',
          color:'green'
        },
        {
          value:'Audi',
          color:'red'
        },
        {
          value:'Maruti',
          color:'orange'
        }
      ]
    }}
  >
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}

```

```
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { Car:'Mustang', Brand:'Ford', count:232 },
      { Car:'EcoSport', Brand:'Ford', count:121 },
      { Car:'Swift', Brand:'Maruti', count:143 },
      { Car:'Baleno', Brand:'Maruti', count:454 },
      { Car:'Vitara Brezza', Brand:'Maruti', count:545 },
      { Car:'A3 Cabriolet', Brand:'Audi', count:123 },
      { Car:'RS7 Sportback', Brand:'Audi', count:523 }
    ]
    weightValuePath= 'count'
    equalColorValuePath='Brand'
    legendSettings= {{
      visible: true,
      height:'50px',
      width:'100px',
      border: {color:'black',width:2}
    }}
    leafItemSettings= {{
      labelPath: 'Car',
      colorMapping:[
        {
          value:'Ford',
          color:'green'
        },
        {
          value:'Audi',
          color:'red'
        },
        {
          value:'Maruti',
          color:'orange'
        }
      ]
    }}
  >
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

Legend for items excluded from color mapping

Based on the mapping ranges in the data source, get the excluded ranges from the color mapping, and show the legend with the excluded range values that are bound to the specific legend.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    rangeColorValuePath='count'
    legendSettings= {{
      visible: true
    }}
    leafItemSettings= {{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:2500,
          minOpacity:0.2,
          maxOpacity:0.5,
          color:'orange'
        },
        {
          from:3000,
          to:4000,
          minOpacity:0.5,
          maxOpacity:0.8,
          color:'green'
        },
        {
          color:'red'
        }
      ]
    }}
  >
    <Inject services=[TreeMapLegend] />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    rangeColorValuePath='count'
    legendSettings= {{
      visible: true
    }}
    leafItemSettings= {{
      labelPath: 'fruit',
      colorMapping:[
        {
          from:500,
          to:2500,
          minOpacity:0.2,
          maxOpacity:0.5,
          color:'orange'
        },
        {
          from:3000,
          to:4000,
          minOpacity:0.5,
          maxOpacity:0.8,
          color:'green'
        },
        {
          color:'red'
        }
      ]
    }}
  >
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

Hide desired legend items

To enable or disable the desired legend item for each color mapping, set the [showLegend](#) property to **true** in the [colorMapping](#).

INDEX.JSX

```
{% raw %}
```

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
class App extends React.Component {
  render() {
    return (<TreeMapComponent id='treemap' dataSource=[
      { fruit: 'Apple', count: 5000 },
      { fruit: 'Mango', count: 3000 },
      { fruit: 'Orange', count: 2300 },
      { fruit: 'Banana', count: 500 },
      { fruit: 'Grape', count: 4300 },
      { fruit: 'Papaya', count: 1200 },
      { fruit: 'Melon', count: 4500 }
    ] weightValuePath='count' rangeColorValuePath='count'
    legendSettings={{
      visible: true
    }} leafItemSettings={{
      labelPath: 'fruit',
      colorMapping: [
        {
          from: 500,
          to: 2500,
          color: 'orange',
          showLegend: true
        },
        {
          from: 3000,
          to: 4000,
          color: 'green',
          showLegend: false
        }
      ]
    }}>
      <Inject services={[TreeMapLegend]}/>
    </TreeMapComponent>);
  }
}
ReactDOM.render(<App />, document.getElementById('treemap'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },

```

```

        { fruit:'Papaya', count:1200 },
        { fruit:'Melon', count:4500 }
    ]}
    weightValuePath= 'count'
    rangeColorValuePath='count'
    legendSettings= {{
        visible: true
    }}
    leafItemSettings= {{
        labelPath: 'fruit',
        colorMapping:[
            {
                from:500,
                to:2500,
                minOpacity:0.2,
                maxOpacity:0.5,
                color:'orange'
            },
            {
                from:3000,
                to:4000,
                minOpacity:0.5,
                maxOpacity:0.8,
                color:'green'
            },
            {
                color:'red'
            }
        ]
    }}>
    <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

Hide legend items based data source value

To enable or disable the legend visibility for each item through the data source, bind the appropriate data source field name to [showLegendPath](#) property in the [legendSettings](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { fruit:'Apple', count:5000, visibility: true , color:
'#71B081' },
            { fruit:'Mango', count:3000, visibility: false, color:
'#5A9A77' },
            { fruit:'Orange', count:2300, visibility: true, color:
'#498770' },

```



```

        { fruit:'Banana', count:500, visibility: false, color:
'#39776C' },
        { fruit:'Grape', count:4300, visibility: true, color:
'#266665' },
        { fruit:'Papaya', count:1200, visibility: false,
color: '#124F5E' }
    ]}
    weightValuePath= 'count'
    colorValuePath='color'
    palette= [[]]
    legendSettings= {{
        visible: true,
        showLegendPath: 'visibility'
    }}
    leafItemSettings= {{
        labelPath: 'fruit',
    }}>
    <Inject services={[TreeMapLegend]} />
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { fruit:'Apple', count:5000, visibility: true , color:
'#71B081' },
            { fruit:'Mango', count:3000, visibility: false, color:
'#5A9A77' },
            { fruit:'Orange', count:2300, visibility: true, color:
'#498770' },
            { fruit:'Banana', count:500, visibility: false, color:
'#39776C' },
            { fruit:'Grape', count:4300, visibility: true, color:
'#266665' },
            { fruit:'Papaya', count:1200, visibility: false,
color: '#124F5E' }
        ]}
        weightValuePath= 'count'
        colorValuePath='color'
        palette= [[]]
        legendSettings= {{
            visible: true,
            showLegendPath: 'visibility'
        }}
        leafItemSettings= {{
            labelPath: 'fruit',

```

```

    }}>
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Bind legend item text from data source

To show the legend item text from the data source, bind the property name from data source to the [valuePath](#) property in the [legendSettings](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000, visibility: true , color:
'#71B081' },
      { fruit:'Mango', count:3000, visibility: false, color:
'#5A9A77' },
      { fruit:'Orange', count:2300, visibility: true, color:
'#498770' },
      { fruit:'Banana', count:500, visibility: false, color:
'#39776C' },
      { fruit:'Grape', count:4300, visibility: true, color:
'#266665' },
      { fruit:'Papaya', count:1200, visibility: false,
color: '#124F5E' }
    ]
    weightValuePath= 'count'
    colorValuePath='color'
    palette= [[]]
    legendSettings= {{
      visible: true,
      valuePath: 'fruit'
    }}
    leafItemSettings= {{
      labelPath: 'fruit',
    }}>
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}

```

```

import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000, visibility: true , color:
'#71B081' },
      { fruit:'Mango', count:3000, visibility: false, color:
'#5A9A77' },
      { fruit:'Orange', count:2300, visibility: true, color:
'#498770' },
      { fruit:'Banana', count:500, visibility: false, color:
'#39776C' },
      { fruit:'Grape', count:4300, visibility: true, color:
'#266665' },
      { fruit:'Papaya', count:1200, visibility: false,
color: '#124F5E' }
    ]
    weightValuePath= 'count'
    colorValuePath='color'
    palette= [[]]
    legendSettings= {{
      visible: true,
      valuePath: 'fruit'
    }}
    leafItemSettings= {{
      labelPath: 'fruit',
    }}>
    <Inject services={[TreeMapLegend]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

Hide duplicate legend items

To enable or disable the duplicate legend items, set the [removeDuplicateLegend](#) property to **true** in the [legendSettings](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000, visibility: true , color:
'#71B081' },
      { fruit:'Grape', count:3000, visibility: false, color:
'#5A9A77' },

```

```

        { fruit:'Apple', count:2300, visibility: true, color:
'#498770' },
        { fruit:'Banana', count:500, visibility: false, color:
'#39776C' },
        { fruit:'Grape', count:4300, visibility: true, color:
'#266665' },
        { fruit:'Papaya', count:1200, visibility: false,
color: '#124F5E' }
      ]}
      weightValuePath= 'count'
      colorValuePath='color'
      palette= {[[]]}
      legendSettings= {{
        visible: true,
        valuePath: 'fruit',
        removeDuplicateLegend: true
      }}
      leafItemSettings= {{
        labelPath: 'fruit',
      }}>
      <Inject services={[TreeMapLegend]} />
    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% enddraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapLegend } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000, visibility: true , color:
'#71B081' },
      { fruit:'Grape', count:3000, visibility: false, color:
'#5A9A77' },
      { fruit:'Apple', count:2300, visibility: true, color:
'#498770' },
      { fruit:'Banana', count:500, visibility: false, color:
'#39776C' },
      { fruit:'Grape', count:4300, visibility: true, color:
'#266665' },
      { fruit:'Papaya', count:1200, visibility: false,
color: '#124F5E' }
    ]}
    weightValuePath= 'count'
    colorValuePath='color'
    palette= {[[]]}
    legendSettings= {{
      visible: true,
      valuePath: 'fruit',

```

```

        removeDuplicateLegend: true
      }}
      leafItemSettings= {{
        labelPath: 'fruit',
      }}>
      <Inject services={[TreeMapLegend]} />
    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% endraw %}

```

Drilldown in React Treemap component

The TreeMap supports drill-down to expose the hierarchy, achieved by clicking a node. If an item is clicked in the TreeMap, it will be moved to the next level or sub level hierarchy and returned back to the previous level by clicking the node.

Perform drill-down action

The TreeMap items can be drilled by setting the [enableDrillDown](#) property to **true**.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
"@syncfusion/ej2-react-treemap";
export function App() {
  return ( <TreeMapComponent
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },
      { Category: 'Employees', Country: 'India', JobDescription: 'HR
Executives', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Accounts', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Marketing', EmployeesCount: 70 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'Germany', JobDescription:
'Management', EmployeesCount: 10 },

```

```

    { Category: 'Employees', Country: 'Germany', JobDescription:
'Accounts', EmployeesCount: 20 },
    { Category: 'Employees', Country: 'UK', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'UK', JobDescription: 'HR
Executives', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'UK', JobDescription:
'Accounts', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'France', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'France', JobDescription:
'Marketing', EmployeesCount: 100 }
  ]}
  weightValuePath= 'EmployeesCount'
  enableDrillDown= {true}
  leafItemSettings={{
    labelFormat: '${JobDescription}-${EmployeesCount}',
    interSectAction: 'WrapByWord'
  }}>
  <LevelsDirective>
    <LevelDirective groupPath='Country' border={{ color: 'black',
width: 0.5 }} />
    <LevelDirective groupPath='JobDescription' border={{ color:
'black', width: 0.5 }} />
    <LevelDirective groupPath='JobGroup' border={{ color: 'black',
width: 0.5 }} />
  </LevelsDirective>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective } from
'@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    palette= [{"#f44336", "#29b6f6", "#ab47bc", "#ffc107", "#5c6bc0",
"#009688"}]
    dataSource=[
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Executive', EmployeesCount: 20 },
      { Category: 'Employees', Country: 'USA', JobDescription: 'Sales',
JobGroup: 'Analyst', EmployeesCount: 30 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Marketing', EmployeesCount: 40 },
      { Category: 'Employees', Country: 'USA', JobDescription:
'Management', EmployeesCount: 80 },
      { Category: 'Employees', Country: 'India', JobDescription:
'Technical', JobGroup: 'Testers', EmployeesCount: 100 },

```

```

    { Category: 'Employees', Country: 'India', JobDescription: 'HR
    Executives', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'India', JobDescription:
    'Accounts', EmployeesCount: 40 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Sales', JobGroup: 'Executive', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Sales', JobGroup: 'Analyst', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Marketing', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 80 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Management', EmployeesCount: 10 },
    { Category: 'Employees', Country: 'Germany', JobDescription:
    'Accounts', EmployeesCount: 20 },
    { Category: 'Employees', Country: 'UK', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 30 },
    { Category: 'Employees', Country: 'UK', JobDescription: 'HR
    Executives', EmployeesCount: 50 },
    { Category: 'Employees', Country: 'UK', JobDescription:
    'Accounts', EmployeesCount: 60 },
    { Category: 'Employees', Country: 'France', JobDescription:
    'Technical', JobGroup: 'Testers', EmployeesCount: 70 },
    { Category: 'Employees', Country: 'France', JobDescription:
    'Marketing', EmployeesCount: 100 }
  ]}
  weightValuePath= 'EmployeesCount'
  enableDrillDown= {true}
  leafItemSettings={{
    labelFormat: '${JobDescription}-${EmployeesCount}',
    interSectAction: 'WrapByWord'
  }}
  <LevelsDirective>
    <LevelDirective groupPath='Country' border={{ color: 'black',
width: 0.5 }} />
    <LevelDirective groupPath='JobDescription' border={{ color:
'black', width: 0.5 }} />
    <LevelDirective groupPath='JobGroup' border={{ color: 'black',
width: 0.5 }} />
  </LevelsDirective>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Tooltip in React Treemap component

Tooltip is used to display details about the items in the TreeMap. When space constraints prevent us from displaying the information using Data Labels, the tooltip comes in handy.

Default tooltip

The tooltip is not visible by default, to make it visible, set the [visible](#) property in the [tooltipSettings](#) to **true** and injecting the `TreeMapTooltip` module.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapTooltip } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    leafItemSettings= {{
      labelPath: 'fruit'
    }}
    tooltipSettings= {{
      visible: true
    }}
    <Inject services={[TreeMapTooltip]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapTooltip } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    leafItemSettings= {{
      labelPath: 'fruit'
    }}
    tooltipSettings= {{
      visible: true
    }}
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

```

    >>
    <Inject services={[TreeMapTooltip]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Format tooltip

The tooltip content is displayed by default based on the [weightValuePath](#). In addition, to show more information in the tooltip, use the [format](#) property and define field from the data source as `${datafield}`.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapTooltip } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    leafItemSettings= {{
      labelPath: 'fruit'
    }}
    tooltipSettings= {{
      visible: true,
      format:'Name:${fruit} - TotalCount:${count}'
    }}
  >
    <Inject services={[TreeMapTooltip]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapTooltip } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent

```

```

    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    leafItemSettings= {{
      labelPath: 'fruit'
    }}
    tooltipSettings= {{
      visible: true,
      format:'Name:${fruit} - TotalCount:${count}'
    }}>
    <Inject services={[TreeMapTooltip]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Tooltip template

Tooltip can be rendered as a custom component using the [template](#) property in the [tooltipSettings](#) which accepts one or more UI elements as an input, that can be rendered as a part of the tooltip rendering. You can use ``${datafield}`` as placeholder in HTML element to display the values from data source.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapTooltip } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    leafItemSettings= {{
      labelPath: 'fruit'
    }}
    tooltipSettings= {{
      visible: true,

```

```

        template: '<div><p>Name: ${fruit}</p><p>Total Count:
${count}</p></div>'
      }}>
      <Inject services={[TreeMapTooltip]} />
    </TreeMapComponent> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Inject, TreeMapTooltip } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { fruit:'Apple', count:5000 },
      { fruit:'Mango', count:3000 },
      { fruit:'Orange', count:2300 },
      { fruit:'Banana', count:500 },
      { fruit:'Grape', count:4300 },
      { fruit:'Papaya', count:1200 },
      { fruit:'Melon', count:4500 }
    ]
    weightValuePath= 'count'
    leafItemSettings= {{
      labelPath: 'fruit'
    }}
    tooltipSettings= {{
      visible: true,
      template: '<div><p>Name: ${fruit}</p><p>Total Count:
${count}</p></div>'
    }}>
    <Inject services={[TreeMapTooltip]} />
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Selection and highlight in React Treemap component

Selection

Selection is used to select a particular group or item to differentiate from other items. Each item or each group can be selected and deselected while interacting with the items. The corresponding Treemap items are also selected while tapping a specific legend item, and vice versa.

The [fill](#) property is used to change the selected item color. The [color](#) and the [width](#) properties are used to customize the selected item border, and the selection is enabled by using the [enable](#) property to **true** in the [selectionSettings](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective, TreeMapSelection,
Inject } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { dataType: "Import", type: "Animal products", product: "2010",
sales: 20839332874 },
      { dataType: "Import", type: "Animal products", product: "2011",
sales: 23098635589 },
      { dataType: "Import", type: "Chemical products", product: "2010",
sales: 141637951510 },
      { dataType: "Import", type: "Chemical products", product: "2011",
sales: 161550338209 },
      { dataType: "Import", type: "Base metals", product: "2010",
sales: 86079439944 },
      { dataType: "Import", type: "Base metals", product: "2011",
sales: 103821671535 },
      { dataType: "Import", type: "Textile articles", product:
"2010", sales: 97126140830 },
      { dataType: "Import", type: "Textile articles", product:
"2011", sales: 104980750811 },
      { dataType: "Export", type: "Animal products", product: "2010",
sales: 15845503378 },
      { dataType: "Export", type: "Animal products", product: "2011",
sales: 20650111620 },
      { dataType: "Export", type: "Chemical products", product: "2010",
sales: 136100054087 },
      { dataType: "Export", type: "Chemical products", product: "2011",
sales: 146341672411 },
      { dataType: "Export", type: "Base metals", product: "2010",
sales: 59060592813 },
      { dataType: "Export", type: "Base metals", product: "2011",
sales: 71785882641 },
      { dataType: "Export", type: "Textile articles", product:
"2010", sales: 20982380561 },
      { dataType: "Export", type: "Textile articles", product:
"2011", sales: 26016143783 }
    ]
    weightValuePath= 'sales'
    leafItemSettings= {{
      labelPath: 'type',
      fill: '#8ebfe2',
      labelPosition: 'Center'
    }}
    selectionSettings= {{
      enable: true,
      fill: '#58a0d3',
      border: { width: 0.3, color: 'black' },
      opacity: '1'
    }}
  >>
  <Inject services={[TreeMapSelection]} />
  <LevelsDirective>

```

```

        <LevelDirective groupPath='dataType' fill='#c5e2f7'
headerStyle={{ size: '16px' }} headerAlignment='Center' groupGap={5} />
        <LevelDirective groupPath='product' fill='#a4d1f2'
headerAlignment='Center' groupGap={2} />
    </LevelsDirective>
</TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective, TreeMapSelection,
Inject } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { dataType: "Import", type: "Animal products", product: "2010",
sales: 20839332874 },
            { dataType: "Import", type: "Animal products", product: "2011",
sales: 23098635589 },
            { dataType: "Import", type: "Chemical products", product: "2010",
sales: 141637951510 },
            { dataType: "Import", type: "Chemical products", product: "2011",
sales: 161550338209 },
            { dataType: "Import", type: "Base metals", product: "2010",
sales: 86079439944 },
            { dataType: "Import", type: "Base metals", product: "2011",
sales: 103821671535 },
            { dataType: "Import", type: "Textile articles", product:
"2010", sales: 97126140830 },
            { dataType: "Import", type: "Textile articles", product:
"2011", sales: 104980750811 },
            { dataType: "Export", type: "Animal products", product: "2010",
sales: 15845503378 },
            { dataType: "Export", type: "Animal products", product: "2011",
sales: 20650111620 },
            { dataType: "Export", type: "Chemical products", product: "2010",
sales: 136100054087 },
            { dataType: "Export", type: "Chemical products", product: "2011",
sales: 146341672411 },
            { dataType: "Export", type: "Base metals", product: "2010",
sales: 59060592813 },
            { dataType: "Export", type: "Base metals", product: "2011",
sales: 71785882641 },
            { dataType: "Export", type: "Textile articles", product:
"2010", sales: 20982380561 },
            { dataType: "Export", type: "Textile articles", product:
"2011", sales: 26016143783 }
        ]}
        weightValuePath= 'sales'
        leafItemSettings= {{

```

```

        labelPath: 'type',
        fill: '#8ebfe2',
        labelPosition: 'Center'
    })
    selectionSettings= {{
        enable: true,
        fill: '#58a0d3',
        border: { width: 0.3, color: 'black' },
        opacity: '1'
    }}>
    <Inject services={[TreeMapSelection]} />
    <LevelsDirective>
        <LevelDirective groupPath='dataType' fill='#c5e2f7'
headerStyle={{ size: '16px' }} headerAlignment='Center' groupGap={5} />
        <LevelDirective groupPath='product' fill='#a4d1f2'
headerAlignment='Center' groupGap={2} />
    </LevelsDirective>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Highlight

Highlight is used to highlight an item or group from other items or groups. Each item or each group can be highlighted by hovering the mouse over the items. The corresponding Treemap items are also be highlighted while hovering over a specific legend item, and vice versa.

The [fill](#) property is used to change the highlighted item color. The [color](#) and the [width](#) properties are used to customize the highlighted item border, and the highlight is enabled by setting the [enable](#) property to **true** in the [highlightSettings](#).

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective, TreeMapHighlight,
Inject } from '@syncfusion/ej2-react-treemap';
export function App() {
    return ( <TreeMapComponent
        dataSource=[
            { dataType: "Import", type: "Animal products",    product: "2010",
sales: 20839332874 },
            { dataType: "Import", type: "Animal products",    product: "2011",
sales: 23098635589 },
            { dataType: "Import", type: "Chemical products", product: "2010",
sales: 141637951510 },
            { dataType: "Import", type: "Chemical products", product: "2011",
sales: 161550338209 },
            { dataType: "Import", type: "Base metals",         product: "2010",
sales: 86079439944 },
            { dataType: "Import", type: "Base metals",         product: "2011",
sales: 103821671535 },
            { dataType: "Import", type: "Textile articles",     product:
"2010", sales: 97126140830 },

```



```

        { dataType: "Import", type: "Textile articles",      product:
"2011", sales: 104980750811 },
        { dataType: "Export", type: "Animal products",      product: "2010",
sales: 15845503378 },
        { dataType: "Export", type: "Animal products",      product: "2011",
sales: 20650111620 },
        { dataType: "Export", type: "Chemical products", product: "2010",
sales: 136100054087 },
        { dataType: "Export", type: "Chemical products", product: "2011",
sales: 146341672411 },
        { dataType: "Export", type: "Base metals",          product: "2010",
sales: 59060592813 },
        { dataType: "Export", type: "Base metals",          product: "2011",
sales: 71785882641 },
        { dataType: "Export", type: "Textile articles",      product:
"2010", sales: 20982380561 },
        { dataType: "Export", type: "Textile articles",      product:
"2011", sales: 26016143783 }
    ]}
    weightValuePath= 'sales'
    leafItemSettings= {{
        labelPath: 'type',
        fill: '#8ebfe2',
        labelPosition: 'Center'
    }}
    highlightSettings= {{
        enable: true,
        fill: '#71b0dd',
        border: { width: 0.3, color: 'black' },
        opacity: '1'
    }}
  >
  <Inject services={[TreeMapHighlight]} />
  <LevelsDirective>
    <LevelDirective groupPath='dataType' fill='#c5e2f7'
headerStyle={{ size: '16px' }} headerAlignment='Center' groupGap={5} />
    <LevelDirective groupPath='product' fill='#a4d1f2'
headerAlignment='Center' groupGap={2} />
  </LevelsDirective>
  </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, LevelDirective, LevelsDirective, TreeMapHighlight,
Inject } from '@syncfusion/ej2-react-treemap';
export function App() {
  return ( <TreeMapComponent
    dataSource=[
      { dataType: "Import", type: "Animal products",      product: "2010",
sales: 20839332874 },

```

```

        { dataType: "Import", type: "Animal products", product: "2011",
sales: 23098635589 },
        { dataType: "Import", type: "Chemical products", product: "2010",
sales: 141637951510 },
        { dataType: "Import", type: "Chemical products", product: "2011",
sales: 161550338209 },
        { dataType: "Import", type: "Base metals", product: "2010",
sales: 86079439944 },
        { dataType: "Import", type: "Base metals", product: "2011",
sales: 103821671535 },
        { dataType: "Import", type: "Textile articles", product:
"2010", sales: 97126140830 },
        { dataType: "Import", type: "Textile articles", product:
"2011", sales: 104980750811 },
        { dataType: "Export", type: "Animal products", product: "2010",
sales: 15845503378 },
        { dataType: "Export", type: "Animal products", product: "2011",
sales: 20650111620 },
        { dataType: "Export", type: "Chemical products", product: "2010",
sales: 136100054087 },
        { dataType: "Export", type: "Chemical products", product: "2011",
sales: 146341672411 },
        { dataType: "Export", type: "Base metals", product: "2010",
sales: 59060592813 },
        { dataType: "Export", type: "Base metals", product: "2011",
sales: 71785882641 },
        { dataType: "Export", type: "Textile articles", product:
"2010", sales: 20982380561 },
        { dataType: "Export", type: "Textile articles", product:
"2011", sales: 26016143783 }
    ]}
    weightValuePath= 'sales'
    leafItemSettings= {{
        labelPath: 'type',
        fill: '#8ebfe2',
        labelPosition: 'Center'
    }}
    highlightSettings= {{
        enable: true,
        fill: '#71b0dd',
        border: { width: 0.3, color: 'black' },
        opacity: '1'
    }}
    <Inject services={[TreeMapHighlight]} />
    <LevelsDirective>
        <LevelDirective groupPath='dataType' fill='#c5e2f7'
headerStyle={{ size: '16px' }} headerAlignment='Center' groupGap={5} />
        <LevelDirective groupPath='product' fill='#a4d1f2'
headerAlignment='Center' groupGap={2} />
    </LevelsDirective>
    </TreeMapComponent> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% enddraw %}

```

Print and export in React Treemap component

Print

To use the print functionality, we should inject the `Print` module into `services` and set the `allowPrint` property to `true`. The rendered treemap can be printed directly from the browser by calling the method `print`.

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Print, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click() {
    treemapInstance.print();
  }
  var treemapInstance;
  return ( <div>
    <ButtonComponent value='Print' onClick= { click}>Print</ButtonComponent>
    <TreeMapComponent allowPrint={true} ref={g => treemapInstance = g}
      dataSource=[
        {State:"United States", GDP:17946, percentage:11.08, Rank:1},
        {State:"China", GDP:10866, percentage: 28.42, Rank:2},
        {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
        {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
        {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
        {State:"France", GDP:2421, percentage:-9.69, Rank:6},
        {State:"India", GDP:2073, percentage:13.65, Rank:7},
        {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
        {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
        {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
      ]
      weightValuePath= 'GDP'
      leafItemSettings= [{
        labelPath: 'State',
        labelFormat: '${State}<br>$$GDP Trillion<br>(${percentage} %)',
        labelStyle: {
          color: '#000000'
        },
        border: {
          color: '#000000',
          width: 0.5
        }
      ]
    </TreeMapComponent></div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, Print, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click() {
    treemapInstance.print();
  }
  let treemapInstance : TreeMapComponent;
  return ( <div>
    <ButtonComponent value='Print' onClick= { click}>Print</ButtonComponent>
    <TreeMapComponent allowPrint={true} ref={g => treemapInstance = g}
      dataSource=[
        {State:"United States", GDP:17946, percentage:11.08, Rank:1},
        {State:"China", GDP:10866, percentage: 28.42, Rank:2},
        {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
        {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
        {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
        {State:"France", GDP:2421, percentage:-9.69, Rank:6},
        {State:"India", GDP:2073, percentage:13.65, Rank:7},
        {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
        {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
        {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
      ]
      weightValuePath= 'GDP'
      leafItemSettings= {{
        labelPath: 'State',
        labelFormat: '$ {State}<br>$$ {GDP} Trillion<br>($ {percentage} %)',
        labelStyle: {
          color: '#000000'
        },
        border: {
          color: '#000000',
          width: 0.5
        }
      }}
    <Inject services={[Print]} />
  </TreeMapComponent></div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

Export

Image Export

To use the image export functionality, we should inject the `ImageExport` module into `services` and set the `allowImageExport` property to `true`. The rendered treemap can be exported as an image using the `export` method. The method requires two parameters: image type and file name. The treemap can be exported as an image in the following formats.

- JPEG
- PNG

- SVG

INDEX.JSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, ImageExport, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click() {
    treemapInstance.export('PNG', 'TreeMap');
  }
  var treemapInstance;
  return ( <div>
    <ButtonComponent value='Export' onClick= {
click}>Export</ButtonComponent> <TreeMapComponent allowImageExport={true}
ref={g => treemapInstance = g}
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'
    leafItemSettings= {{
      labelPath: 'State',
      labelFormat: '$ {State}<br>$$ {GDP} Trillion<br>($ {percentage} %)',
      labelStyle: {
        color: '#000000'
      },
      border: {
        color: '#000000',
        width: 0.5
      }
    }}
    <Inject services={[ImageExport]} />
  </TreeMapComponent> </div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
```

```

import { TreeMapComponent, ImageExport, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click(){
    treemapInstance.export('PNG', 'TreeMap');
  }
  let treemapInstance : TreeMapComponent;
  return ( <div>
    <ButtonComponent value='Export' onClick= {
click}>Export</ButtonComponent> <TreeMapComponent allowImageExport={true}
ref={g => treemapInstance = g}
  dataSource=[
    {State:"United States", GDP:17946, percentage:11.08, Rank:1},
    {State:"China", GDP:10866, percentage: 28.42, Rank:2},
    {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
    {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
    {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
    {State:"France", GDP:2421, percentage:-9.69, Rank:6},
    {State:"India", GDP:2073, percentage:13.65, Rank:7},
    {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
    {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
    {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
  ]}
  weightValuePath= 'GDP'
  leafItemSettings= {{
    labelPath: 'State',
    labelFormat: '${State}<br>${GDP} Trillion<br>(${percentage} %)',
    labelStyle: {
      color: '#000000'
    },
    border: {
      color: '#000000',
      width: 0.5
    }
  }}
  <Inject services={[ImageExport]} />
</TreeMapComponent> </div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

We can get the image file as base64 string for the JPEG and PNG formats. The treemap can be exported to image as a base64 string using the [export](#) method. There are four parameters required: image type, file name, orientation of the exported PDF document which must be set as **null** for image export and finally **allowDownload** which should be set as **false** to return base64 string.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, ImageExport, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';

```

```

export function App() {
  function click(){
    treemapInstance.export('PNG', 'TreeMap', null, false).then((data)=>{
      document.writeln(data);
    })
  }
  var treemapInstance;
  return ( <div>
    <ButtonComponent value='Export' onClick= {
click}>Export</ButtonComponent> <TreeMapComponent allowImageExport={true}
ref={g => treemapInstance = g}
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ])
    weightValuePath= 'GDP'
    leafItemSettings= [{
      labelPath: 'State',
      labelFormat: '${State}<br>$$GDP Trillion<br>($percentage %)',
      labelStyle: {
        color: '#000000'
      },
      border: {
        color: '#000000',
        width: 0.5
      }
    }]
    <Inject services={[ImageExport]} />
  </TreeMapComponent> </div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, ImageExport, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click(){
    treemapInstance.export('PNG', 'TreeMap', null, false).then((data)=>{
      document.writeln(data);
    })
  }
}

```



```

let treemapInstance: TreeMapComponent;
return ( <div>
  <ButtonComponent value='Export' onClick= {
click}>Export</ButtonComponent> <TreeMapComponent allowImageExport={true}
ref={g => treemapInstance = g}
  dataSource=[
    {State:"United States", GDP:17946, percentage:11.08, Rank:1},
    {State:"China", GDP:10866, percentage: 28.42, Rank:2},
    {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
    {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
    {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
    {State:"France", GDP:2421, percentage:-9.69, Rank:6},
    {State:"India", GDP:2073, percentage:13.65, Rank:7},
    {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
    {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
    {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
  ]
  weightValuePath= 'GDP'
  leafItemSettings= {{
    labelPath: 'State',
    labelFormat: '$ {State}<br>$$ {GDP} Trillion<br>($ {percentage} %)',
    labelStyle: {
      color: '#000000'
    },
    border: {
      color: '#000000',
      width: 0.5
    }
  }}
  <Inject services={[ImageExport]} />
</TreeMapComponent> </div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

PDF Export

To use the PDF export functionality, we should inject the PdfExport module into services and set the [allowPdfExport](#) property to **true**. The rendered treemap can be exported as PDF using the [export](#) method. The [export](#) method requires three parameters: file type, file name and orientation of the PDF document. The orientation setting is optional and **0** indicates portrait and **1** indicates landscape.

INDEX.JSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, PdfExport, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click(){
    treemapInstance.export('PDF', 'export', 0);
  }
  var treemapInstance;
  return ( <div>

```

```

    <ButtonComponent value='Export' onClick= {
click}>Export</ButtonComponent> <TreeMapComponent allowPdfExport={true}
ref={g => treemapInstance = g}
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},
      {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
      {State:"France", GDP:2421, percentage:-9.69, Rank:6},
      {State:"India", GDP:2073, percentage:13.65, Rank:7},
      {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
      {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
      {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
    ]
    weightValuePath= 'GDP'
    leafItemSettings= {{
      labelPath: 'State',
      labelFormat: '${State}<br>$$GDP Trillion<br>({percentage} %)',
      labelStyle: {
        color: '#000000'
      },
      border: {
        color: '#000000',
        width: 0.5
      }
    }}
    <Inject services={[PdfExport]} />
  </TreeMapComponent> </div> );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from "react";
import * as ReactDOM from "react-dom";
import { TreeMapComponent, PdfExport, Inject } from '@syncfusion/ej2-react-treemap';
import { ButtonComponent } from '@syncfusion/ej2-react-buttons';
export function App() {
  function click(){
    treemapInstance.export('PDF', 'export', 0);
  }
  let treemapInstance : TreeMapComponent;
  return ( <div>
    <ButtonComponent value='Export' onClick= {
click}>Export</ButtonComponent> <TreeMapComponent allowPdfExport={true}
ref={g => treemapInstance = g}
    dataSource=[
      {State:"United States", GDP:17946, percentage:11.08, Rank:1},
      {State:"China", GDP:10866, percentage: 28.42, Rank:2},
      {State:"Japan", GDP:4123, percentage:-30.78, Rank:3},
      {State:"Germany", GDP:3355, percentage:-5.19, Rank:4},

```

```

        {State:"United Kingdom", GDP:2848, percentage:8.28, Rank:5},
        {State:"France", GDP:2421, percentage:-9.69, Rank:6},
        {State:"India", GDP:2073, percentage:13.65, Rank:7},
        {State:"Italy", GDP:1814, percentage:-12.45, Rank:8},
        {State:"Brazil", GDP:1774, percentage:-27.88, Rank:9},
        {State:"Canada", GDP:1550, percentage:-15.02, Rank:10}
      ]}
      weightValuePath= 'GDP'
      leafItemSettings= {{
        labelPath: 'State',
        labelFormat: '$ {State}<br>$$ {GDP} Trillion<br>($ {percentage} %)',
        labelStyle: {
          color: '#000000'
        },
        border: {
          color: '#000000',
          width: 0.5
        }
      }}>
      <Inject services={[PdfExport]} />
    </TreeMapComponent> </div> );
  }
  const root = ReactDOM.createRoot(document.getElementById('container'));
  root.render(<App />);
  {% enddraw %}

```

The exporting of the treemap as base64 string is not supported in the PDF export.

Accessibility in React TreeMap component

The TreeMap component follows commonly used accessibility guidelines and standards, such as [ADA](#), [Section 508](#), [WCAG 2.2](#) standards, and [WCAG roles](#).

The accessibility compliance for the TreeMap component is outlined below.

| Accessibility Criteria | Compatibility |

| -- | -- |

| [WCAG 2.2 Support](#) | |

| [Section 508 Support](#) | |

| [Screen Reader Support](#) | |

| [Right-To-Left Support](#) | |

| [Color Contrast](#) | |

| [Mobile Device Support](#) | |

| [Accessibility Checker Validation](#) | |

| [Axe-core Accessibility Validation](#) | |

<style>

.post .post-content img {

display: inline-block;

margin: 0.5em 0;

}

</style>

<div> - All features of the component meet the requirement.</div>

<div> - Some features of the component do not meet the requirement.</div>

<div> - The component does not meet the requirement.</div>

WAI-ARIA attributes

The TreeMap component follows the [WAI-ARIA](#) patterns to meet the accessibility. The following ARIA attributes are used in the TreeMap component:

| Attributes | Purpose |

| --- | --- |

| **role=region** | It specifies the TreeMap areas that do not support interactive functions like selection and highlight. |

| **role=button** | It specifies the TreeMap areas where interactive functions such as selection and highlight are available. |

| **aria-label** | Provides an accessible name for the title, subtitle, data labels, legend title, and legend item labels. |

Screen reading in TreeMap

Accessibility in the TreeMap component ensures that all users, regardless of ability or disability, can use screen reading. The following TreeMap elements will be read aloud using screen reading software, such as Narrator for Windows.

| Elements | Description |

| --- | --- |

| Data labels | Reads the labels displayed on leaf items of the TreeMap. |

| Title | Reads the title in the TreeMap. |

| Subtitle | Reads the title below the main title content in the TreeMap. |

| Legend title | Reads the title of the legend in the TreeMap. |

| Legend item label | Reads the label of the legend item in the TreeMap. |

Ensuring accessibility

The TreeMap component's accessibility levels are ensured through an [accessibility-checker](#) and [axe-core](#) software tools during automated testing.

The accessibility compliance of the TreeMap component is shown in the following sample. Open the [sample](#) in a new window to evaluate the accessibility of the TreeMap component with accessibility tools.

See also

- [Accessibility in Syncfusion React components](#)

Internationalization in React Treemap component

The TreeMap control supports internationalization for the following elements:

- Data label
- Tooltip

For more information about number and date formatter, refer to [internationalization](#).

<!-- markdownlint-disable MD036 -->

Globalization

Globalization is the process of designing and developing a component that works in different cultures/locales. Internationalization library is used to globalize number, date, and time values in the TreeMap control using the [format](#) property in the TreeMap.

Numeric format

In the following code example, tooltip is globalized to Deutsch culture.

INDEX.JSX

```
{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {
  TreeMapComponent,
  TreeMapTooltip,
  Inject,
} from '@syncfusion/ej2-react-treemap';
import { setCulture, setCurrencyCode } from '@syncfusion/ej2-base';
setCulture('de');
setCurrencyCode('EUR');
export function App() {
  return (
    <TreeMapComponent
      format="c"
      dataSource=[
        { State: 'United States', GDP: 17946, percentage: 11.08, Rank: 1 },
        { State: 'China', GDP: 10866, percentage: 28.42, Rank: 2 },
        { State: 'Japan', GDP: 4123, percentage: -30.78, Rank: 3 },
        { State: 'Germany', GDP: 3355, percentage: -5.19, Rank: 4 },
        { State: 'United Kingdom', GDP: 2848, percentage: 8.28, Rank: 5 },
      ]
    />
  );
}
```

```

    { State: 'France', GDP: 2421, percentage: -9.69, Rank: 6 },
    { State: 'India', GDP: 2073, percentage: 13.65, Rank: 7 },
    { State: 'Italy', GDP: 1814, percentage: -12.45, Rank: 8 },
    { State: 'Brazil', GDP: 1774, percentage: -27.88, Rank: 9 },
    { State: 'Canada', GDP: 1550, percentage: -15.02, Rank: 10 },
  ]}
  weightValuePath="GDP"
  tooltipSettings={{
    visible: true,
  }}
>
  <Inject services={[TreeMapTooltip]} />
</TreeMapComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {
  TreeMapComponent,
  TreeMapTooltip,
  Inject,
} from '@syncfusion/ej2-react-treemap';
import { setCulture, setCurrencyCode } from '@syncfusion/ej2-base';
setCulture('de');
setCurrencyCode('EUR');
export function App() {
  return (
    <TreeMapComponent
      format="c"
      dataSource={[
        { State: 'United States', GDP: 17946, percentage: 11.08, Rank: 1 },
        { State: 'China', GDP: 10866, percentage: 28.42, Rank: 2 },
        { State: 'Japan', GDP: 4123, percentage: -30.78, Rank: 3 },
        { State: 'Germany', GDP: 3355, percentage: -5.19, Rank: 4 },
        { State: 'United Kingdom', GDP: 2848, percentage: 8.28, Rank: 5 },
        { State: 'France', GDP: 2421, percentage: -9.69, Rank: 6 },
        { State: 'India', GDP: 2073, percentage: 13.65, Rank: 7 },
        { State: 'Italy', GDP: 1814, percentage: -12.45, Rank: 8 },
        { State: 'Brazil', GDP: 1774, percentage: -27.88, Rank: 9 },
        { State: 'Canada', GDP: 1550, percentage: -15.02, Rank: 10 },
      ]}
      weightValuePath="GDP"
      tooltipSettings={{
        visible: true,
      }}
    >
      <Inject services={[TreeMapTooltip]} />
    </TreeMapComponent>
  );
}

```

```
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
```

Ej1 api migration in React Treemap component

This article describes the API migration process of Accordion component from Essential JS 1 to Essential JS 2.

Data Binding

{% raw %}

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| DataSource | **Property:** `dataSource`

 <EJ.TreeMap id="treemap"
`dataSource={{[State:"United States", GDP:17946, percentage:11.08, Rank:1]}}`
`weightValuePath='GDP'` leafItemSettings={leaf}></EJ.TreeMap>
var leaf={labelPath:
`'State'}` | **Property:** `dataSource`

 <TreeMapComponent id="treemap"
`dataSource={{[State:"United States", GDP:17946, percentage:11.08, Rank:1]}}`
`weightValuePath='GDP'` leafItemSettings={labelPath: 'State'}></TreeMapComponent>|

Appearance

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Layout | **Property:** `itemsLayoutMode`

 <EJ.TreeMap id="treemap" itemsLayoutMode=
`"sliceanddiceauto"`></EJ.TreeMap> | **Property:** `layoutType`

 <TreeMapComponent
id="treemap" layoutType= 'SliceAndDiceAuto'></TreeMapComponent>|

| Weight Value Path | **Property:** `weightValuePath`

 <EJ.TreeMap id="treemap"
`weightValuePath= "Population"` ></EJ.TreeMap> | **Property:**
`weightValuePath`

 <TreeMapComponent id="treemap" weightValuePath=
`'Population'`></TreeMapComponent>|

| Range Color Value Path | **Property:** `colorValuePath`

 <EJ.TreeMap id="treemap"
`colorValuePath= "Continent"`></EJ.TreeMap> | **Property:** `rangeColorValuePath`

<TreeMapComponent id="treemap" rangeColorValuePath= 'Continent'
></TreeMapComponent>|

| Equal Color Value Path | Not Applicable | **Property:** `equalColorValuePath`

<TreeMapComponent id="treemap" equalColorValuePath= 'Asia' ></TreeMapComponent>|

| Height | **Property:** `height`

 <EJ.TreeMap id="treemap" height= 50
></EJ.TreeMap> | **Property:** `height`

 <TreeMapComponent id="treemap" height= '50px'
></TreeMapComponent>|

| Width | **Property:** `width`

 <EJ.TreeMap id="treemap" width=
400></EJ.TreeMap> | **Property:** `width`

 <TreeMapComponent id="treemap"
width='400px' ></TreeMapComponent>|

| Theme | Not Applicable | **Property:** *theme*
<TreeMapComponent id="treemap" theme='Highcontrast' ></TreeMapComponent>|

| Localization | **Property:** *locale*
<EJ.TreeMap id="treemap" locale= "en-US"></EJ.TreeMap>| **Property:** *locale*
<TreeMapComponent id="treemap" locale='en-US' ></TreeMapComponent>|

| Palette Colors | **Property:** *paletteColorMapping.colors*
<EJ.TreeMap id="treemap" paletteColorMapping="paletteColorMapping"></EJ.TreeMap>
var paletteColorMapping={ colors: ['red','green'] }| **Property:** *palette*
<TreeMapComponent palette={['#C33764', '#AB3566']} id="treemap" ></TreeMapComponent>|

| Margin | Not Applicable | **Property:** *margin*
<TreeMapComponent id="treemap" ></TreeMapComponent>|

| Resize | **Property:** *enableResize*
<EJ.TreeMap id="treemap" enableResize: true></EJ.TreeMap>| Not Applicable |

| Responsive | **Property:** *isResponsive*
<EJ.TreeMap id="treemap" isResponsive= true></EJ.TreeMap>| Not Applicable |

Leaf Items

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Border Color | **Property:** *leafItemSettings.borderBrush*
<EJ.TreeMap id="treemap" leafItemSettings={leafItem} showLabels={true}></EJ.TreeMap>
var leafItem={borderBrush: "blue" }| **Property:** *leafItemSettings.border*
<TreeMapComponent id="treemap" leafItemSettings={ border: { color: 'white' } }></TreeMapComponent>|

| Border Width | **Property:** *leafItemSettings.borderThickness*
<EJ.TreeMap id="treemap" leafItemSettings={leafItem} showLabels={true}></EJ.TreeMap>
var leafItem={ borderThickness: 5 }| **Property:** *leafItemSettings.border*
<TreeMapComponent id="treemap" leafItemSettings={ border: { width: 5 } }></TreeMapComponent>|

| Gap Value | **Property:** *leafItemSettings.gap*
<EJ.TreeMap id="treemap" leafItemSettings={leafItem} showLabels={true}></EJ.TreeMap>
var leafItem={ gap: 5 }| **Property:** *leafItemSettings.gap*
<TreeMapComponent id="treemap" leafItemSettings={ gap: 5 }></TreeMapComponent>|

| Leaf Item Label | **Property:** *leafItemSettings.itemTemplate*
<EJ.TreeMap id="treemap" leafItemSettings={leafItem} showLabels={true}></EJ.TreeMap>
var leafItem={ itemTemplate: "template" }| **Property:** *leafItemSettings.labelTemplate*
<TreeMapComponent id="treemap" leafItemSettings={ labelTemplate: 'template' }></TreeMapComponent>|

| Leaf Label Path | **Property:** *leafItemSettings.labelPath*
<EJ.TreeMap id="treemap" leafItemSettings={leafItem} showLabels={true}></EJ.TreeMap>
var leafItem={ labelPath: "GameName" }| **Property:** *leafItemSettings.labelPath*
<TreeMapComponent id="treemap" leafItemSettings={ labelPath: 'GameName' }></TreeMapComponent>|

| Leaf Label Position | **Property:** *leafItemSettings.labelPosition*
 <EJ.TreeMap id="treemap"
 leafItemSettings={leafItem} showLabels={true}></EJ.TreeMap>
 var leafItem={
 labelPosition: "topcenter"} | **Property:** *leafItemSettings.labelPosition*
 <TreeMapComponent id="treemap" leafItemSettings={ labelPosition: 'Center'
 }></TreeMapComponent> |

| Leaf Label Color | Not Applicable | **Property:** *leafItemSettings.fill*
 <TreeMapComponent
 id="treemap" leafItemSettings={ fill: 'red'}></TreeMapComponent> |

| Random Colors | Not Applicable | **Property:** *leafItemSettings.autoFill*
 <TreeMapComponent
 id="treemap" leafItemSettings={ autoFill: true }></TreeMapComponent> |

| Format | Not Applicable | **Property:** *leafItemSettings.labelFormat*
 <TreeMapComponent
 id="treemap" leafItemSettings={ labelFormat: '\$ {Continent}- \$ {Population}'
 }></TreeMapComponent> |

| Labels Visibility | **Property:** *leafItemSettings.showLabels*
 <EJ.TreeMap id="treemap"
 showLabels={true}></EJ.TreeMap> | **Property:** *leafItemSettings.showLabels*
 <TreeMapComponent id="treemap" leafItemSettings={ showLabels: false
 }></TreeMapComponent> |

| Opacity | Not Applicable | **Property:** *leafItemSettings.opacity*
 <TreeMapComponent
 id="treemap" leafItemSettings={ opacity: 0.7 }></TreeMapComponent> |

| Padding | Not Applicable | **Property:** *leafItemSettings.padding*
 <TreeMapComponent
 id="treemap" leafItemSettings={ padding: 5}></TreeMapComponent> |

| Font Customization | Not Applicable | **Property:** *leafItemSettings.labelStyle*
 <TreeMapComponent id="treemap" leafItemSettings={ labelStyle: { size: '12px', color: 'red',
 opacity: 0.5 } }></TreeMapComponent> |

| Position of Template | Not Applicable | **Property:** *leafItemSettings.templatePosition*
 <TreeMapComponent id="treemap" leafItemSettings={ templatePosition:
 'Center'}></TreeMapComponent> |

Legend

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Legend Alignment | **Property:** *legendSettings.alignment*
 <EJ.TreeMap id="treemap"
 legendSettings = {legend} ></EJ.TreeMap>
 var legend={ alignment: "far" } | **Property:**
legendSettings.alignment
 <TreeMapComponent id="treemap"
 legendSettings={alignment: 'Near' }></TreeMapComponent> |

| Legend Visibility | **Property:** *showLegend*
 <EJ.TreeMap id="treemap" legendSettings =
 {legend} ></EJ.TreeMap>
 var legend={ showLegend: false } | **Property:**
legendSettings.visible
 <TreeMapComponent id="treemap" legendSettings={visible:
 true }></TreeMapComponent> |

| Legend Position | **Property:** *legendSettings.dockPosition*
 <EJ.TreeMap id="treemap"
 legendSettings = {legend} ></EJ.TreeMap>
 var legend={ dockPosition: "bottom" } | **Property:**

legendSettings.position

 <TreeMapComponent id="treemap" legendSettings={ position: 'Top' }></TreeMapComponent>|

| Legend Height | **Property:** *legendSettings.height*

 <EJ.TreeMap id="treemap" legendSettings = {legend} ></EJ.TreeMap>
var legend={ height: 40}|**Property:** *legendSettings.height*

 <TreeMapComponent id="treemap" legendSettings={ height: '40px' }></TreeMapComponent>|

| Legend Width | **Property:** *legendSettings.width*

 <EJ.TreeMap id="treemap" legendSettings = {legend} ></EJ.TreeMap>
var legend={ width: 100}|**Property:** *legendSettings.width*

<TreeMapComponent id="treemap" legendSettings={ width: '100px' }></TreeMapComponent>|

| Shape Height | **Property:** *legendSettings.iconHeight*

 <EJ.TreeMap id="treemap" legendSettings = {legend} ></EJ.TreeMap>
var legend={ iconHeight: 15 }|**Property:** *legendSettings.shapeHeight*

 <TreeMapComponent id="treemap" legendSettings={ shapeHeight: '40px' }></TreeMapComponent>|

| Shape Width | **Property:** *legendSettings.iconWidth*

 <EJ.TreeMap id="treemap" legendSettings = {legend} ></EJ.TreeMap>
var legend={iconWidth: 8 }|**Property:** *legendSettings.shapeWidth*

 <TreeMapComponent id="treemap" legendSettings={shapeWidth: '40px' }></TreeMapComponent>|

| Padding | Not Applicable | **Property:** *legendSettings.shapePadding*

 <TreeMapComponent id="treemap" legendSettings={ shapePadding: 10}></TreeMapComponent>|

| Legend Title | **Property:** *legendSettings.title*

 <EJ.TreeMap id="treemap" legendSettings = {legend} ></EJ.TreeMap>
var legend={ iconWidth: 8 }|**Property:** *legendSettings.title*

 <TreeMapComponent id="treemap" legendSettings={title: 'Legend' }></TreeMapComponent>|

| Legend Shape | Not Applicable | **Property:** *legendSettings.shape*

 <TreeMapComponent id="treemap" legendSettings={shape: 'Rectangle' }></TreeMapComponent>|

| Legend Mode | **Property:** *legendSettings.mode*

 <EJ.TreeMap id="treemap" legendSettings = {legend} ></EJ.TreeMap>
var legend={ mode: "interactive"}|**Property:** *legendSettings.mode*

 <TreeMapComponent id="treemap" legendSettings={ mode: 'Interactive' }></TreeMapComponent>|

| Legend Text Customization | Not Applicable | **Property:** *legendSettings.textStyle*

 <TreeMapComponent id="treemap" legendSettings={textStyle: { size: '10px', opacity: 0.5, color: 'red' } }></TreeMapComponent>|

| Legend Title Customization | Not Applicable | **Property:** *legendSettings.titleStyle*

 <TreeMapComponent id="treemap" legendSettings={ titleStyle: { size: '10px', opacity: 0.5, color: 'red' } }></TreeMapComponent>|

| Legend Shape Border | Not Applicable | **Property:** *legendSettings.shapeBorder*

 <TreeMapComponent id="treemap" legendSettings={shapeBorder: { width: 2, color: 'red' } }></TreeMapComponent>|

| Legend Template | **Property:** *legendSettings.template*

 <EJ.TreeMap id="treemap"
legendSettings = {legend}></EJ.TreeMap>
var legend={ template: "template" }| Not
Applicable|

| Left Label | **Property:** *legendSettings.leftLabel*

 <EJ.TreeMap id="treemap" legendSettings
= {legend}></EJ.TreeMap>
var legend={ mode: "interactive", leftLabel: "10Million" }| Not
Applicable|

| Right Label | **Property:** *legendSettings.rightLabel*

 <EJ.TreeMap id="treemap"
legendSettings = {legend}></EJ.TreeMap>
var legend={ mode: "interactive", rightLabel:
"100Million"}| Not Applicable|

| Legend Shape Image | Not Applicable| **Property:** *legendSettings.imageUrl*

<TreeMapComponent id="treemap" legendSettings={ imageUrl: "image.png"
}></TreeMapComponent>|

| Position in Interactive Legend | Not Applicable| **Property:** *legendSettings.labelPosition*

<TreeMapComponent id="treemap" legendSettings={labelPosition: "Center"
}></TreeMapComponent>|

| Legend Location | Not Applicable| **Property:** *legendSettings.location*

 <TreeMapComponent
id="treemap" legendSettings={ location: { x: 10, y: 20 } }></TreeMapComponent>|

| Legend Orientation | Not Applicable| **Property:** *legendSettings.orientation*

<TreeMapComponent id="treemap" legendSettings={orientation: "Horizontal"
}></TreeMapComponent>|

Levels

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Random Colors | Not Applicable| **Property:** *levels.autoFill*

 <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective
autoFill=true></LevelDirective></LevelsDirective></TreeMapComponent>|

| Level Background Color | **Property:** *levels.groupBackground*

 <EJ.TreeMap id="treemap"
levels = {levels}></EJ.TreeMap>
var levels=[groupBackground: "white"]| **Property:**
levels.fill

 <TreeMapComponent id="treemap"><LevelsDirective><LevelDirective fill=
'white'></LevelDirective></LevelsDirective></TreeMapComponent>|

| Level Border Color | **Property:** *levels.groupBorderColor*

 <EJ.TreeMap id="treemap" levels
= {levels}></EJ.TreeMap>
var levels=[groupBorderColor: "#58585B"]| **Property:**
levels.border.color

 <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective border= { color: "#58585B" }
></LevelDirective></LevelsDirective></TreeMapComponent>|

| Level Border Width | **Property:** *levels.groupBorderThickness*

 <EJ.TreeMap id="treemap"
levels = {levels}></EJ.TreeMap>
var levels=[groupBorderThickness: 2]| **Property:**
levels.border.width

 <TreeMapComponent

```
id="treemap"><LevelsDirective><LevelDirective border= { width: 2
}></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Group Gap| Property: levels.groupGap<br/><br/> <EJ.TreeMap id="treemap" levels =
{levels}></EJ.TreeMap><br/>var levels=[groupGap: 2 ]| Property: levels.groupGap<br/><br/>
<TreeMapComponent id="treemap"><LevelsDirective><LevelDirective groupGap=
2></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Group Padding| Property: levels.groupPadding<br/><br/> <EJ.TreeMap id="treemap" levels =
{levels}></EJ.TreeMap><br/>var levels=[groupPadding: 1 ]| Property:
levels.groupPadding<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective groupPadding={1}
></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Group Path| Property: levels.groupPath<br/><br/> <EJ.TreeMap id="treemap" levels =
{levels}></EJ.TreeMap><br/>var levels=[groupPath: "pathname" ]| Property:
levels.groupPath<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective groupPath=
'pathname'></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Height of Header Level| Property: levels.headerHeight<br/><br/> <EJ.TreeMap id="treemap" levels
= {levels}></EJ.TreeMap><br/>var levels=[ headerHeight: 20 ]| Property:
levels.headerHeight<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective headerHeight={20}
></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Header Template| Property: levels.headerTemplate<br/><br/> <EJ.TreeMap id="treemap" levels =
{levels}></EJ.TreeMap><br/>var levels=[ headerTemplate: "template" ]| Property:
levels.headerTemplate<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective headerTemplate= 'template'
></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Opacity of Color| Not Applicable| Property: levels.opacity<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective
opacity={0.5}></LevelDirective></LevelsDirective></TreeMapComponent>|
```

```
| Header Visibility| Property: levels.showHeader<br/><br/> <EJ.TreeMap id="treemap" levels =
{levels}></EJ.TreeMap><br/>var levels=[showHeader: false ]| Property:
levels.showHeader<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective
showHeader={false}></LevelDirective></LevelsDirective> </TreeMapComponent>|
```

```
| Template Position| Property: levels.labelPosition<br/><br/> <EJ.TreeMap id="treemap" levels =
{levels}></EJ.TreeMap><br/>var levels=[ labelPosition: "topleft" ]| Property:
levels.templatePosition<br/><br/> <TreeMapComponent
id="treemap"><LevelsDirective><LevelDirective templatePosition= 'Center'
></LevelDirective></LevelsDirective></TreeMapComponent>|
```

| Header Style | Not Applicable | **Property:** *levels.headerStyle*

 <TreeMapComponent id="treemap"><LevelsDirective><LevelDirective headerStyle= { color: 'red', size: '16px', opacity: 0.7 } ></LevelDirective></LevelsDirective></TreeMapComponent>|

| Header Format | Not Applicable | **Property:** *levels.headerFormat*

 <TreeMapComponent id="treemap"><LevelsDirective><LevelDirective headerFormat= '{Continent}' ></LevelDirective></LevelsDirective></TreeMapComponent>|

| Header Alignment | Not Applicable | **Property:** *levels.headerAlignment*

 <TreeMapComponent id="treemap"><LevelsDirective><LevelDirective headerAlignment= 'Center' ></LevelDirective></LevelsDirective></TreeMapComponent>|

Selection

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Selection | **Property:** *selectionMode*

 <EJ.TreeMap id="treemap" selectionMode="default"> </EJ.TreeMap>| **Property:** *selectionSettings.mode*

 <TreeMapComponent id="treemap" selectionSettings={ enable: true, mode: 'Item'}></TreeMapComponent>
<Inject services=[[TreeMapSelection]]/>|

| Selection Color | Not Applicable | **Property:** *selectionSettings.fill*

 <TreeMapComponent id="treemap" selectionSettings={ enable: true, fill: 'blue' }></TreeMapComponent>
<Inject services=[[TreeMapSelection]]/>|

| Selection Color Opacity | Not Applicable | **Property:** *selectionSettings.opacity*

 <TreeMapComponent id="treemap" selectionSettings={ enable: true, fill: 'blue', opacity: 0.6}></TreeMapComponent>
<Inject services=[[TreeMapSelection]]/>|

| Border for selection | Not Applicable | **Property:** *selectionSettings.border*

 <TreeMapComponent id="treemap" selectionSettings={ border: { color: 'red', width: 2 } }></TreeMapComponent>
<Inject services=[[TreeMapSelection]]/>|

Highlight

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Highlight Group Selection Mode | **Property:** *highlightGroupOnSelection*

 <EJ.TreeMap id="treemap" highlightGroupOnSelection= {true}> </EJ.TreeMap>| **Property:** *highlightSettings.mode*

 <TreeMapComponent id="treemap" highlightSettings={ enable: true, mode: 'All'}></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Selection Mode | **Property:** *highlightOnSelection*

 <EJ.TreeMap id="treemap" highlightOnSelection= {true}> </EJ.TreeMap>| **Property:** *highlightSettings.mode*

 <TreeMapComponent id="treemap" highlightSettings={enable: true, mode: 'Item'}></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Group Border Color | **Property:** *highlightGroupBorderBrush*

 <EJ.TreeMap id="treemap" highlightGroupBorderBrush= 'gray'> </EJ.TreeMap>| **Property:**

highlightSettings.border.color

 <TreeMapComponent id="treemap" highlightSettings={ enable: true, mode: 'All',border: { color: 'gray' } }></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Group Border Width | **Property:** *highlightGroupBorderThickness*

 <EJ.TreeMap id="treemap" highlightGroupBorderThickness= {3} ></EJ.TreeMap>| **Property:** *highlightSettings.border.width*

 <TreeMapComponent id="treemap" highlightSettings={enable: true, mode: 'All', border: { width: 3 } }></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Selection Border Color | **Property:** *highlightBorderBrush*

 <EJ.TreeMap id="treemap" highlightBorderBrush= 'gray' ></EJ.TreeMap>| **Property:** *highlightSettings.border.color*

 <TreeMapComponent id="treemap" highlightSettings={ enable: true, mode: 'Item', border: { color: 'gray' } }></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Selection Border Width | **Property:** *highlightBorderThickness*

 <EJ.TreeMap id="treemap" highlightBorderThickness= {3}></EJ.TreeMap>| **Property:** *highlightSettings.border.width*

 <TreeMapComponent id="treemap" highlightSettings={ enable: true, mode: 'Item', border: { width: 3 } }></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Color | Not Applicable | **Property:** *highlightSettings.fill*

 <TreeMapComponent id="treemap" highlightSettings={ enable: true, fill: 'red' }></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

| Highlight Color Opacity | Not Applicable | **Property:** *highlightSettings.opacity*

 <TreeMapComponent id="treemap" highlightSettings={ enable: true, fill: 'red', opacity: 0.5 }></TreeMapComponent>
<Inject services=[[TreeMapHighlight]]/>|

Range ColorMapping

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| From value | **Property:** *rangeColorMapping.from*

 <EJ.TreeMap id="treemap" rangeColorMapping="range"></EJ.TreeMap>
var range=[{ from: 1000 }]| **Property:** *leafItemSettings.colorMapping.from*

 <TreeMapComponent id="treemap" leafItemSettings={colorMapping: [{ from: 1000 }]}></TreeMapComponent>|

| To value | **Property:** *rangeColorMapping.to*

 <EJ.TreeMap id="treemap" rangeColorMapping="range"></EJ.TreeMap>
var range=[{ to: 100000 }]| **Property:** *leafItemSettings.colorMapping.to*

 <TreeMapComponent id="treemap" leafItemSettings={ colorMapping: [{ to: 100000 }]}></TreeMapComponent>|

| Color | **Property:** *rangeColorMapping.color*

 <EJ.TreeMap id="treemap" rangeColorMapping="range"></EJ.TreeMap>
var range=[{ color: "#77D8D8" }]| **Property:** *leafItemSettings.colorMapping.color*

 <TreeMapComponent id="treemap" leafItemSettings={ colorMapping: [{ color: "#77D8D8" }]}></TreeMapComponent>|

| Legend Label | **Property:** *rangeColorMapping.legendLabel*

<EJ.TreeMap id="treemap" rangeColorMapping="range"></EJ.TreeMap>
var range=[{ legendLabel: "Growth" }] | **Property:** *leafItemSettings.colorMapping.label*

 <TreeMapComponent id="treemap" leafItemSettings={ colorMapping: [{ label: "Growth" }] }></TreeMapComponent> |

Desaturation ColorMapping

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| From value | **Property:** *desaturationColorMapping.from*

<EJ.TreeMap id="treemap" desaturationColorMapping="desaturation"> </EJ.TreeMap>
var desaturation=[{ from: 1000 }] | **Property:** *leafItemSettings.colorMapping.from*

 <TreeMapComponent id="treemap" leafItemSettings={ colorMapping: [{ from: 1000 }] }></TreeMapComponent> |

| To value | **Property:** *desaturationColorMapping.to*

<EJ.TreeMap id="treemap" desaturationColorMapping="desaturation"> </EJ.TreeMap>
var desaturation=[{ to: 10000 }] | **Property:** *leafItemSettings.colorMapping.to*

 <TreeMapComponent id="treemap" leafItemSettings={colorMapping: [{ to: 10000 }]}></TreeMapComponent> |

| Color | **Property:** *desaturationColorMapping.color*

<EJ.TreeMap id="treemap" desaturationColorMapping="desaturation"> </EJ.TreeMap>
var desaturation=[{ color: "#77D8D8" }] | **Property:** *leafItemSettings.colorMapping.color*

 <TreeMapComponent id="treemap" leafItemSettings={colorMapping: [{ color: "#77D8D8" }] }></TreeMapComponent> |

| Value | Not Applicable | **Property:** *leafItemSettings.colorMapping.value*

 <TreeMapComponent id="treemap" leafItemSettings={colorMapping: [{ value: "Population" }]}></TreeMapComponent> |

| Minimum Opacity | Not Applicable | **Property:** *leafItemSettings.colorMapping.minOpacity*

 <TreeMapComponent id="treemap" leafItemSettings={colorMapping: [{ minOpacity: 0.7 }]}></TreeMapComponent> |

| Maximum Opacity | Not Applicable | **Property:** *leafItemSettings.colorMapping.maxOpacity*

 <TreeMapComponent id="treemap" leafItemSettings={colorMapping: [{ maxOpacity: 1 }] }></TreeMapComponent> |

Tooltip

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Tooltip | **Property:** *showTooltip*

<EJ.TreeMap id="treemap" showTooltip={true}></EJ.TreeMap> | **Property:** *tooltipSettings.visible*

 <TreeMapComponent id="treemap" tooltipSettings={ visible: true}></TreeMapComponent>
<Inject services=[{TreeMapTooltip, TreeMapLegend}]/> |

| Tooltip Template | **Property:** *tooltipTemplate*

 <EJ.TreeMap id="treemap" showTooltip={true} tooltipTemplate='template' ></EJ.TreeMap> | **Property:** *tooltipSettings.template*

 <TreeMapComponent id="treemap" tooltipSettings={visible:

true,template: 'template' }></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

| Tooltip Border | Not Applicable | **Property:** *tooltipSettings.border*

 <TreeMapComponent id="treemap" tooltipSettings={visible: true,border: { color: 'red', width: 2 } }></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

| Tooltip Color | Not Applicable | **Property:** *tooltipSettings.fill*

 <TreeMapComponent id="treemap" tooltipSettings={visible: true, fill: 'gray'}></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

| Tooltip Format | Not Applicable | **Property:** *tooltipSettings.format*

 <TreeMapComponent id="treemap" tooltipSettings={visible: true, format: '\$ {Population}' }></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

| Tooltip Marker Shape | Not Applicable | **Property:** *tooltipSettings.markerShapes*

 <TreeMapComponent id="treemap" tooltipSettings={visible: true, markerShapes: 'Circle' }></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

| Tooltip Color Opacity | Not Applicable | **Property:** *tooltipSettings.opacity*

 <TreeMapComponent id="treemap" tooltipSettings={visible: true,opacity: 0.5 }></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

| Tooltip Text Style | Not Applicable | **Property:** *tooltipSettings.textStyle*

 <TreeMapComponent id="treemap" tooltipSettings={visible: true,textStyle: { Color: 'red', opacity: 0.5, size: '12px' } }></TreeMapComponent>
<Inject services=[[TreeMapTooltip, TreeMapLegend]]/>|

Drilldown

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Drilldown | **Property:** *enableDrillDown*

 <EJ.TreeMap id="treemap" enableDrillDown={true} ></EJ.TreeMap>| **Property:** *enableDrillDown*

 <TreeMapComponent id="treemap" enableDrillDown= {true}></TreeMapComponent>|

| Drilldown Level | **Property:** *drillDownLevel*

 <EJ.TreeMap id="treemap" drillDownLevel={1}></EJ.TreeMap>| **Property:** *InitialDrillSettings.groupIndex*

 <TreeMapComponent id="treemap" InitialDrillSettings= { groupIndex: 1 }></TreeMapComponent>|

Methods

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

| Treemap Refresh Method | **Method:** *refresh*

 var treemap = \$("#container").ejTreeMap("instance"); treemap.refresh();| **Method:** *refresh*

 var treemap = document.getElementById('container').ej2_instances[0]; treemap.refresh();|

| Method to Drilldown | **Method:** *drillDown*

 var treemap = \$("#container").ejTreeMap("instance"); treemap.drillDown();| Not Applicable|

|Append to Method| Not Applicable| **Method:** *appendTo*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.appendTo();|

|Add Event Listener Method| Not Applicable| **Method:** *addEventListener*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.addEventListener();|

|Treemap Destroy Method| Not Applicable| **Method:** *destroy*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.destroy();|

|Treemap Exporting Method| Not Applicable| **Method:** *export*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.export();|

|Get the Module Name| Not Applicable| **Method:** *getModuleName*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.getModuleName();|

|Printing the Treemap| Not Applicable| **Method:** *print*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.print();|

|Resizing the Treemap| Not Applicable| **Method:** *resizeOnTreeMap*

 var treemap
= document.getElementById('container').ej2_instances[0]; treemap.resizeOnTreeMap();|

|Inject Method (Tooltip)| Not Applicable| **Method:** *resizeOnTreeMap*

TreeMap.Inject(TreeMapTooltip);
 TreeMap.Inject(TreeMapTooltip); var treemap
= document.getElementById('container').ej2_instances[0]; treemap.resizeOnTreeMap();|

|Remove Event Listener Method| Not Applicable| **Method:** *removeEventListener*

 var
treemap = document.getElementById('container').ej2_instances[0];
treemap.removeEventListener();|

Events

| **Behavior** | **API in Essential JS 1** | **API in Essential JS 2** |

| --- | --- | --- |

|Treemap Load Event| Not Applicable| **Event:** *load*

 <TreeMapComponent id="treemap"
load={this.load.bind(this)}></TreeMapComponent>
load(args){ }|

|Treemap Loaded Event| Not Applicable| **Event:** *loaded*

 <TreeMapComponent
id="treemap" loaded={this.loaded.bind(this)}></TreeMapComponent>
loaded(args){ }|

|Event Before Print| Not Applicable| **Event:** *beforePrint*

<TreeMapComponent
id="treemap"
beforePrint={this.beforePrint.bind(this)}></TreeMapComponent>
beforePrint(args){ }|

|Click Event| **Event:** *click*

 <EJ.TreeMap id="treemap" click =
{click}></EJ.TreeMap>
function click(args){ }| **Event:** *click*

 <TreeMapComponent
id="treemap" click={this.click.bind(this)}></TreeMapComponent>
click(args){ }|

|Drill Start Event| **Event:** *drillStarted*

 <EJ.TreeMap id="treemap" drillStarted =
{drillStarted}></EJ.TreeMap>
function drillStarted(args){ }| **Event:** *drillStart*

<TreeMapComponent id="treemap" drillStart={this.
drillStart.bind(this)}></TreeMapComponent>
drillStart(args){ }|

| Drill End Event | Not Applicable | **Event:** *drillEnd*
<TreeMapComponent id="treemap"
drillEnd={this.drillEnd.bind(this)}></TreeMapComponent>
drillEnd(args){ }|

| Event on Item Click | Not Applicable | **Event:** *itemClick*
id="treemap" itemClick={this.
itemClick.bind(this)}></TreeMapComponent>
itemClick(args){ }|

| Treemap Item Select Event | **Event:** *treeMapItemSelected*
treeMapItemSelected = {TreeMapItemSelected}></EJ.TreeMap>
function
treeMapItemSelected(args){ } | **Event:** *itemSelected*
itemSelected={this. itemSelected.bind(this)}></TreeMapComponent>
itemSelected(args){
}|

| Treemap Item Rendering Event | **Event:** *itemRendering*
itemRendering = { itemRendering}></EJ.TreeMap>
function itemRendering(args){ } | **Event:**
itemRendering
itemRendering={this.
itemRendering.bind(this)}></TreeMapComponent>
itemRendering(args){ }|

| Treemap Item Move Event | Not Applicable | **Event:** *itemMove*
id="treemap"
itemMove={this.itemMove.bind(this)}></TreeMapComponent>
itemMove(args){ }|

| Treemap Item Highlight Event | Not Applicable | **Event:** *itemHighlight*
<TreeMapComponent id="treemap"
itemHighlight={this.itemHighlight.bind(this)}></TreeMapComponent>
itemHighlight(args){
}|

| Template Header Render Event | **Event:** *headerTemplateRendering*
id="treemap" headerTemplateRendering =
{headerTemplateRendering}></EJ.TreeMap>
function headerTemplateRendering(args){ } |
Not Applicable |

| Drilldown Item Select Event | **Event:** *drillDownItemSelected*
drillDownItemSelected = {drillDownItemSelected}></EJ.TreeMap>
function
drillDownItemSelected(args){ } | Not Applicable |

| Refresh Event | **Event:** *refreshed*
<EJ.TreeMap id="treemap" refreshed =
{refreshed}></EJ.TreeMap>
function refreshed(args){ } | Not Applicable |

| Group Select Event | **Event:** *treeMapGroupSelected*
treeMapGroupSelected = { treeMapGroupSelected}></EJ.TreeMap>
function
treeMapGroupSelected(args){ } | Not Applicable |

| Mouse Event | Not Applicable | **Event:** *mouseMove*
mouseMove={this.mouseMove.bind(this)}></TreeMapComponent>
mouseMove(args){ }|

| Resize Event | Not Applicable | **Event:** *resize*
resize={this.resize.bind(this)}></TreeMapComponent>
resize(args){ }|

| Tooltip Render Event | Not Applicable | **Event:** *tooltipRendering*
id="treemap"

```
tooltipRendering={this.tooltipRendering.bind(this)}></TreeMapComponent><br>tooltipRendering(args){ }
```

```
| Double Click Event | Event: doubleClick<br/><br/><EJ.TreeMap id="treemap" doubleClick = {doubleClick}></EJ.TreeMap><br/>function doubleClick(args){ } | Not Applicable |
```

```
| Right Click Event | Event: rightClick<br/><br/><EJ.TreeMap id="treemap" rightClick = {rightClick}></EJ.TreeMap><br/>function rightClick(args){ } | Not Applicable |
```

```
{% endraw %}
```

How To

Drilldown in React Treemap component

Customize the header for treemap drilldown

You can add a header element as `<div>` and customize it to show the population of a particular country or continent on treemap drill-down.

To customize the header for treemap drill-down, follow the given steps:

Step 1:

```
<!-- markdownlint-disable MD031 -->
```

Initialize the treemap and enable the drill-down option.

```
{% raw %}
```

```
`ts
```

```
import { TreeMapComponent, LevelDirective, LevelsDirective, ILoadedEventArgs, IDrillEndEventArgs }
from '@syncfusion/ej2-react-treemap';
```

```
import * as React from 'react';
```

```
import * as ReactDOM from "react-dom";
```

```
import { DrillDown } from './datasource';
```

```
export function App() {
```

```
  return (
```

```
    <TreeMapComponent palette={ ['#9999ff', '#CCFF99', '#FFFF99', '#FF9999', '#FF99FF', '#FFCC66']}
      enableDrillDown={true} format={"n"} useGroupingSeparator={true} dataSource={DrillDown}
      weightValuePath='Population' leafItemSettings={ {
```

```
        labelPath: 'Name',
```

```
        showLabels: false,
```

```
        labelStyle: { size: '0px' },
```

```
        border: { color: 'black', width: 0.5 }
      } }>
```

```
    <LevelsDirective>
```

```
      <LevelDirective groupPath='Continent' fill='#336699' border={ { color: 'black', width: 0.5 } } />
```

```

<LevelDirective groupPath='States' fill='#336699' border={ { color: 'black', width: 0.5 } } />
<LevelDirective groupPath='Region' showHeader={false} fill='#336699' border={ { color: 'black', width:
0.5 } } />
</LevelsDirective>
</TreeMapComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
`js
{% enddraw %}

```

Step 2:

Show the population of a particular continent in the treemap **loaded** event. In this event, you can get the header element.

```

`js
function loaded(args: ILoadedEventArgs): void {
let header: Element = document.getElementById('header') as Element;
let population: number = 0;
for (let i: number = 0; i < args.treemap.layout.renderItems[0]['parent'].Continent.length; i++) {
population += +(args.treemap.layout.renderItems[0]['parent'].Continent[i]['data'].Population);
}
header.innerHTML = 'Continent - Population : ' + population
}
`

```

Step 3:

Customize the population for drilled countries or states in the header element when drill-down the treemap. The **drillEnd** event will be triggered when treemap is drilled.

DATASOURCE.JSX

```

/**
 * drill down sample
 */
//tslint:disable
export let DrillDown = [
  { Continent: [
    { Name: "Africa", Population: 1216130000, States: [
      { Name: "Eastern Africa", Population: 410637987, Region:
[
        { Name: "Ethiopia", Population: 107534882 },

```

```

    { Name: "Tanzania", Population: 59091392 },
    { Name: "Kenya", Population: 50950879 },
    { Name: "Uganda", Population: 44270563 },
    { Name: "Mozambique", Population: 30528673 },
    { Name: "Madagascar", Population: 26262810 },
    { Name: "Malawi", Population: 19164728 },
    { Name: "Zambia", Population: 17609178 },
    { Name: "Zimbabwe", Population: 16913261 },
    { Name: "Somalia", Population: 15181925 },
    { Name: "South, Sudan", Population: 12919053 },
    { Name: "Rwanda", Population: 12501156 },
    { Name: "Burundi", Population: 11216450 },
    { Name: "Eritrea", Population: 5187948 },
    { Name: "Mauritius", Population: 1268315 },
    { Name: "Djibouti", Population: 971408 },
    { Name: "Réunion", Population: 883247 },
    { Name: "Comoros", Population: 832347 },
    { Name: "Mayotte", Population: 259682 },
    { Name: "Seychelles", Population: 95235 },
  ] },
  { Name: "Middle Africa", Population: 158562976, Region: [
    { Name: "Democratic, Republic of the Congo",
Population: 84004989 },
    { Name: "Angola", Population: 30774205 },
    { Name: "Cameroon", Population: 24678234 },
    { Name: "Chad", Population: 15353184 },
    { Name: "Congo", Population: 5399895 },
    { Name: "Central African, Republic", Population:
4737423 },
    { Name: "Gabon", Population: 2067561 },
    { Name: "Equatorial Guinea", Population: 1313894
},
    { Name: "Sao Tome and Principe", Population:
208818 },
  ] },
  { Name: "Northern Africa", Population: 229385603, Region:
[
    { Name: "Egypt", Population: 99375741 },
    { Name: "Algeria", Population: 42008054 },
    { Name: "Sudan", Population: 41511526 },
    { Name: "Morocco", Population: 36191805 },
    { Name: "Tunisia", Population: 11659174 },
    { Name: "Libya", Population: 6470956 },
    { Name: "Western, Sahara", Population: 567421 },
  ] },
  { Name: "Southern Africa", Population: 64292365, Region:
[
    { Name: "South Africa", Population: 57398421 },
    { Name: "Namibia", Population: 2587801 },
    { Name: "Botswana", Population: 2333201 },
    { Name: "Lesotho", Population: 2263010 },
    { Name: "Swaziland", Population: 1391385 },
  ] },
  { Name: "Western Africa", Population: 362201579, Region:
[
    { Name: "Nigeria", Population: 195875237 },
    { Name: "Ghana", Population: 29463643 },

```



```

        { Name: "Côte d'Ivoire", Population: 24905843 },
        { Name: "Niger", Population: 22311375 },
        { Name: "Burkina Faso", Population: 19751651 },
        { Name: "Mali", Population: 19107706 },
        { Name: "Senegal", Population: 16294270 },
        { Name: "Guinea", Population: 13052608 },
        { Name: "Benin", Population: 11485674 },
        { Name: "Togo", Population: 7990926 },
        { Name: "Sierra Leone", Population: 7719729 },
        { Name: "Liberia", Population: 4853516 },
        { Name: "Mauritania", Population: 4540068 },
        { Name: "Gambia", Population: 2163765 },
        { Name: "Guinea-Bissau", Population: 1907268 },
        { Name: "Cabo Verde", Population: 553335 },
        { Name: "Saint Helena", Population: 4074 },
    ] },
    ],
    },
    { Continent: [
        {
            Name: "Asia", Population: 4436224000, States: [
                { Name: "Central Asia", Population: 69787760, Region: [
                    { Name: "Uzbekistan", Population: 32364996 },
                    { Name: "Kazakhstan", Population: 18403860 },
                    { Name: "Tajikistan", Population: 9107211 },
                    { Name: "Kyrgyzstan", Population: 6132932 },
                    { Name: "Turkmenistan", Population: 5851466 },
                ] },
                { Name: "Eastern Asia", Population: 1641908531, Region: [
                    { Name: "China", Population: 1415045928 },
                    { Name: "Japan", Population: 127185332 },
                    { Name: "South Korea", Population: 51164435 },
                    { Name: "North Korea", Population: 25610672 },
                    { Name: "Taiwan", Population: 23694089 },
                    { Name: "Hong Kong", Population: 7428887 },
                    { Name: "Mongolia", Population: 3121772 },
                    { Name: "Macao", Population: 632418 },
                ] },
                { Name: "Southeastern Asia", Population: 641775797,
                    Region: [
                        { Name: "Indonesia", Population: 266794980 },
                        { Name: "Philippines", Population: 106512074 },
                        { Name: "Viet Nam", Population: 96491146 },
                        { Name: "Thailand", Population: 69183173 },
                        { Name: "Myanmar", Population: 53855735 },
                        { Name: "Malaysia", Population: 32042458 },
                        { Name: "Cambodia", Population: 16245729 },
                        { Name: "Laos", Population: 6961210 },
                        { Name: "Singapore", Population: 5791901 },
                        { Name: "Timor-Leste", Population: 1324094 },
                        { Name: "Brunei Darussalam", Population: 434076 },
                    ],
                },
                { Name: "Southern Asia", Population: 1846266634, Region: [

```

```

        { Name: "India", Population: 1354051854 },
        { Name: "Pakistan", Population: 200813818 },
        { Name: "Bangladesh", Population: 166368149 },
        { Name: "Iran", Population: 82011735 },
        { Name: "Afghanistan", Population: 36373176 },
        { Name: "Nepal", Population: 29624035 },
        { Name: "Sri Lanka", Population: 20950041 },
        { Name: "Bhutan", Population: 817054 },
        { Name: "Maldives", Population: 444259 },
    ] },
    { Name: "Western Asia", Population: 262938009, Region: [
        { Name: "Turkey", Population: 81916871 },
        { Name: "Iraq", Population: 39339753 },
        { Name: "Saudi Arabia", Population: 33554343 },
        { Name: "Yemen", Population: 28915284 },
        { Name: "Syria", Population: 18284407 },
        { Name: "Azerbaijan", Population: 9923914 },
        { Name: "Jordan", Population: 9903802 },
        { Name: "United Arab Emirates", Population:
9541615 },
        { Name: "Israel", Population: 8452841 },
        { Name: "Lebanon", Population: 6093509 },
        { Name: "State of Palestine", Population: 5052776
    },
        { Name: "Oman", Population: 4829946 },
        { Name: "Kuwait", Population: 4197128 },
        { Name: "Georgia", Population: 3907131 },
        { Name: "Armenia", Population: 2934152 },
        { Name: "Qatar", Population: 2694849 },
        { Name: "Bahrain", Population: 1566993 },
        { Name: "Cyprus", Population: 1189085 },
    ] },
    ]
},
{ Continent: [
    {
        Name: "North America", Population: 579024000, States: [
            { Name: "Central America", Population: 174988756, Region:
[
                { Name: "Mexico", Population: 130759074 },
                { Name: "Guatemala", Population: 17245346 },
                { Name: "Honduras", Population: 9417167 },
                { Name: "El, Salvador", Population: 6411558 },
                { Name: "Nicaragua", Population: 6284757 },
                { Name: "Costa, Rica", Population: 4953199 },
                { Name: "Panama", Population: 4162618 },
                { Name: "Belize", Population: 382444 },
            ] },
            { Name: "Northern America", Population: 358593810,
Region: [
                { Name: "U.S.", Population: 3267667480 },
                { Name: "Canada", Population: 36953765 },
                { Name: "Bermuda", Population: 61070 },
                { Name: "Greenland", Population: 56565 },
            ]
        }
    }
]
}

```

```

        { Name: "Saint Pierre & Miquelon", Population:
6342 },
        ] },
    ]
}
]
},
{
    Continent: [
        {
            Name: "South America", Population: 422535000, States: [
                { Name: "Brazil", Population: 204519000 },
                { Name: "Colombia", Population: 48549000 },
                { Name: "Argentina", Population: 43132000 },
                { Name: "Peru", Population: 31153000 },
                { Name: "Venezuela", Population: 30620000 },
                { Name: "Chile", Population: 18006000 },
                { Name: "Ecuador", Population: 16279000 },
                { Name: "Bolivia", Population: 10520000 },
                { Name: "Paraguay", Population: 7003000 },
                { Name: "Uruguay", Population: 3310000 },
                { Name: "Guyana", Population: 747000 },
                { Name: "Suriname", Population: 560000 },
                { Name: "French Guiana", Population: 262000 },
                { Name: "Falkland Islands", Population: 3000 },
            ]
        },
    ]
},
{ Continent: [
    {
        Name: "Europe", Population: 738849000, States: [
            { Name: "Eastern Europe", Population: 291953328, Region:
[
                { Name: "Russia", Population: 143964709 },
                { Name: "Ukraine", Population: 44009214 },
                { Name: "Poland", Population: 38104832 },
                { Name: "Romania", Population: 19580634 },
                { Name: "Crech, Republic", Population: 10625250
            },

            { Name: "Hungary", Population: 9688847 },
            { Name: "Belarus", Population: 9452113 },
            { Name: "Bulgaria", Population: 7036848 },
            { Name: "Slovakia", Population: 5449816 },
            { Name: "Moldova", Population: 4041065 },
        ] },
            { Name: "Northern Europe", Population: 103642971, Region:
[
                { Name: "United Kingdom", Population: 66573504 },
                { Name: "Sweden", Population: 9982709 },
                { Name: "Denmark", Population: 5754356 },
                { Name: "Finland", Population: 5542517 },
                { Name: "Norway", Population: 5353363 },
                { Name: "Ireland", Population: 4803748 },
                { Name: "Lithuania", Population: 2876475 },
                { Name: "Latvia", Population: 1929938 },
                { Name: "Estonia", Population: 1306788 },
            ]
        },
    ]
}
}

```

```

        { Name: "Iceland", Population: 337780 },
        { Name: "Channel Islands", Population: 166083 },
        { Name: "Isle of Man", Population: 84831 },
        { Name: "Faeroe Islands", Population: 49489 },
      ] },
      { Name: "Southern Europe", Population: 152172107, Region:
[
      { Name: "Italy", Population: 59290969 },
      { Name: "Spain", Population: 46397452 },
      { Name: "Greece", Population: 11142161 },
      { Name: "Portugal", Population: 10291196 },
      { Name: "Serbia", Population: 8762027 },
      { Name: "Croatia", Population: 4164783 },
      { Name: "Bosnia and Herzegovina", Population:
3503554 },
      { Name: "Albania", Population: 2934363 },
      { Name: "Macedonia", Population: 2085051 },
      { Name: "Slovenia", Population: 2081260 },
      { Name: "Montenegro", Population: 629219 },
      { Name: "Malta", Population: 432089 },
      { Name: "Andorra", Population: 76953 },
      { Name: "Gibraltar", Population: 34733 },
      { Name: "San Marino", Population: 33557 },
      { Name: "Holy, See", Population: 801 },
    ] },
      { Name: "Western Europe", Population: 92746859, Region: [
        { Name: "Germany", Population: 82293457 },
        { Name: "France", Population: 65233271 },
        { Name: "Netherlands", Population: 17084459 },
        { Name: "Belgium", Population: 11498519 },
        { Name: "Austria", Population: 8751820 },
        { Name: "Switzerland", Population: 8544034 },
        { Name: "Luxembourg", Population: 590321 },
        { Name: "Monaco", Population: 38897 },
        { Name: "Liechtenstein", Population: 38155 },
      ] },
    ] },
  ] },
}
]
];

```

DATASOURCE.TSX

```

/**
 * drill down sample
 */
//tslint:disable
export let DrillDown: Object[] = [
  { Continent:[
    { Name: "Africa",Population: 1216130000, States: [
      { Name: "Eastern Africa",Population:410637987, Region:[
        { Name:"Ethiopia", Population: 107534882},
        { Name:"Tanzania", Population: 59091392},
        { Name:"Kenya", Population: 50950879},

```

```

        { Name:"Uganda", Population: 44270563},
        { Name:"Mozambique", Population: 30528673},
        { Name:"Madagascar", Population: 26262810},
        { Name:"Malawi", Population: 19164728},
        { Name:"Zambia", Population: 17609178},
        { Name:"Zimbabwe", Population: 16913261},
        { Name:"Somalia", Population: 15181925},
        { Name:"South, Sudan", Population: 12919053},
        { Name:"Rwanda", Population: 12501156},
        { Name:"Burundi", Population: 11216450},
        { Name:"Eritrea", Population: 5187948},
        { Name:"Mauritius", Population: 1268315},
        { Name:"Djibouti", Population: 971408},
        { Name:"Réunion", Population: 883247},
        { Name:"Comoros", Population: 832347},
        { Name:"Mayotte", Population: 259682},
        { Name:"Seychelles", Population: 95235},
    ] },
    { Name: "Middle Africa",Population:158562976, Region:[
        { Name:"Democratic, Republic of the Congo",
Population: 84004989},
        { Name:"Angola", Population: 30774205},
        { Name:"Cameroon", Population: 24678234},
        { Name:"Chad", Population: 15353184},
        { Name:"Congo", Population: 5399895},
        { Name:"Central African, Republic", Population:
4737423},
        { Name:"Gabon", Population: 2067561},
        { Name:"Equatorial Guinea", Population:
1313894},
        { Name:"Sao Tome and Principe", Population:
208818},
    ] },
    { Name: "Northern Africa",Population:229385603, Region: [
        { Name:"Egypt", Population: 99375741},
        { Name:"Algeria", Population: 42008054},
        { Name:"Sudan", Population: 41511526},
        { Name:"Morocco", Population: 36191805},
        { Name:"Tunisia", Population: 11659174},
        { Name:"Libya", Population: 6470956},
        { Name:"Western, Sahara", Population: 567421},
    ] },
    { Name: "Southern Africa",Population:64292365, Region:[
        { Name:"South Africa", Population: 57398421},
        { Name:"Namibia", Population: 2587801},
        { Name:"Botswana", Population: 2333201},
        { Name:"Lesotho", Population: 2263010},
        { Name:"Swaziland", Population: 1391385},
    ] },
    { Name: "Western Africa", Population:362201579, Region:[
        { Name:"Nigeria", Population: 195875237},
        { Name:"Ghana", Population: 29463643},
        { Name:"Côte d'Ivoire", Population: 24905843},
        { Name:"Niger", Population: 22311375},
        { Name:"Burkina Faso", Population: 19751651},
        { Name:"Mali", Population: 19107706},
        { Name:"Senegal", Population: 16294270},
    ] },

```

```

        { Name:"Guinea", Population: 13052608},
        { Name:"Benin", Population: 11485674},
        { Name:"Togo", Population: 7990926},
        { Name:"Sierra Leone", Population: 7719729},
        { Name:"Liberia", Population: 4853516},
        { Name:"Mauritania", Population: 4540068},
        { Name:"Gambia", Population: 2163765},
        { Name:"Guinea-Bissau", Population: 1907268},
        { Name:"Cabo Verde", Population: 553335},
        { Name:"Saint Helena", Population: 4074},
    ] },
    ] },
    ],
    },

    { Continent:[
    {
        Name: "Asia", Population:4436224000, States:[
            {Name: "Central Asia", Population: 69787760, Region:[
                { Name:"Uzbekistan", Population: 32364996 },
                { Name:"Kazakhstan", Population: 18403860 },
                { Name:"Tajikistan", Population: 9107211 },
                { Name:"Kyrgyzstan", Population: 6132932 },
                { Name:"Turkmenistan", Population: 5851466 },
            ] },
            {Name: "Eastern Asia", Population:1641908531, Region:[
                { Name:"China", Population: 1415045928},
                { Name:"Japan", Population: 127185332 },
                { Name:"South Korea", Population: 51164435 },
                { Name:"North Korea", Population:25610672 },
                { Name:"Taiwan", Population: 23694089 },
                { Name:"Hong Kong", Population: 7428887 },
                { Name:"Mongolia", Population: 3121772},
                { Name:"Macao", Population: 632418 },
            ] },
            {Name: "Southeastern Asia", Population:641775797,
                Region: [
                    { Name:"Indonesia", Population:
                        266794980 },
                    { Name:"Philippines", Population:
                        106512074 },
                    { Name:"Viet Nam", Population: 96491146 },
                    { Name:"Thailand", Population: 69183173 },
                    { Name:"Myanmar", Population: 53855735 },
                    { Name:"Malaysia", Population: 32042458 },
                    { Name:"Cambodia", Population: 16245729 },
                    { Name:"Laos", Population: 6961210 },
                    { Name:"Singapore", Population:
                        5791901},
                    { Name:"Timor-Leste", Population:
                        1324094},
                    { Name:"Brunei Darussalam", Population:
                        434076},
                ] },
            ] },
    ],
    },

```

```

        {Name: "Southern Asia", Population: 1846266634, Region:
    [
        { Name:"India", Population: 1354051854},
        { Name:"Pakistan", Population: 200813818},
        { Name:"Bangladesh", Population:
166368149},
        { Name:"Iran", Population: 82011735},
        { Name:"Afghanistan", Population:
36373176},
        { Name:"Nepal", Population: 29624035},
        { Name:"Sri Lanka", Population:
20950041},
        { Name:"Bhutan", Population: 817054},
        { Name:"Maldives", Population: 444259},
    ]},
    {Name: "Western Asia", Population:262938009, Region: [
        { Name:"Turkey", Population: 81916871},
        { Name:"Iraq", Population: 39339753},
        { Name:"Saudi Arabia", Population: 33554343},
        { Name:"Yemen", Population: 28915284},
        { Name:"Syria", Population: 18284407},
        { Name:"Azerbaijan", Population: 9923914},
        { Name:"Jordan", Population: 9903802},
        { Name:"United Arab Emirates", Population:
9541615},
        { Name:"Israel", Population: 8452841},
        { Name:"Lebanon", Population: 6093509},
        { Name:"State of Palestine", Population:
5052776},
        { Name:"Oman", Population: 4829946},
        { Name:"Kuwait", Population: 4197128},
        { Name:"Georgia", Population: 3907131},
        { Name:"Armenia", Population: 2934152},
        { Name:"Qatar", Population: 2694849},
        { Name:"Bahrain", Population: 1566993},
        { Name:"Cyprus", Population: 1189085},
    ] },
    ]
    },
    { Continent:[
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        Name: "North America", Population:579024000, States:[
        {Name:"Central America", Population:174988756 , Region:[
            { Name:"Mexico", Population: 130759074 },
            { Name:"Guatemala", Population: 17245346 },
            { Name:"Honduras", Population: 9417167 },
            { Name:"El, Salvador", Population: 6411558},
            { Name:"Nicaragua", Population: 6284757 },
            { Name:"Costa, Rica", Population: 4953199},
            { Name:"Panama", Population: 4162618 },
            { Name:"Belize", Population: 382444 },
        ]},
        { Name:"Northern America", Population:358593810, Region:[

```



```

        { Name:"U.S.", Population:3267667480 },
        { Name:"Canada", Population:36953765},
        { Name:"Bermuda", Population:61070 },
        { Name:"Greenland", Population:56565},
        { Name:"Saint Pierre & Miquelon", Population:6342
    },
    ]},
]
}]
},

{
  Continent:[
    {
      Name:"South America", Population: 422535000, States:[
        {Name:"Brazil", Population:204519000},
        {Name:"Colombia", Population:48549000 },
        {Name:"Argentina", Population:43132000 },
        {Name:"Peru", Population:31153000 },
        {Name:"Venezuela", Population:30620000},
        {Name:"Chile", Population:18006000 },
        {Name:"Ecuador", Population:16279000},
        {Name:"Bolivia", Population:10520000},
        {Name:"Paraguay", Population:7003000},
        {Name:"Uruguay", Population:3310000},
        {Name:"Guyana", Population:747000},
        {Name:"Suriname", Population:560000 },
        {Name:"French Guiana", Population:262000},
        {Name:"Falkland Islands", Population:3000 },
      ]},
    ]},
  { Continent:[
    {
      Name: "Europe", Population:738849000, States:[
        {Name:"Eastern Europe", Population:291953328, Region:[
          {Name:"Russia", Population:143964709 },
          {Name:"Ukraine", Population: 44009214},
          {Name:"Poland", Population:38104832 },
          {Name:"Romania", Population:19580634 },
          {Name:"Crech, Republic", Population:10625250 },
          {Name:"Hungary", Population:9688847 },
          {Name:"Belarus", Population:9452113 },
          {Name:"Bulgaria", Population: 7036848},
          {Name:"Slovakia", Population: 5449816},
          {Name:"Moldova", Population:4041065 },
        ] },
        {Name:"Northern Europe", Population:103642971, Region:[
          { Name:"United Kingdom", Population: 66573504},
          { Name:"Sweden", Population: 9982709},
          { Name:"Denmark", Population: 5754356},
          { Name:"Finland", Population: 5542517},
          { Name:"Norway", Population: 5353363},
          { Name:"Ireland", Population: 4803748},
          { Name:"Lithuania", Population: 2876475},
          { Name:"Latvia", Population: 1929938},

```

```

        { Name:"Estonia", Population: 1306788},
        { Name:"Iceland", Population: 337780},
        { Name:"Channel Islands", Population: 166083},
        { Name:"Isle of Man", Population: 84831},
        { Name:"Faeroe Islands", Population: 49489},
    ] },
    {Name:"Southern Europe", Population:152172107, Region:[
        { Name:"Italy",Population: 59290969 },
        { Name:"Spain",Population: 46397452},
        { Name:"Greece",Population: 11142161 },
        { Name:"Portugal",Population: 10291196},
        { Name:"Serbia",Population: 8762027 },
        { Name:"Croatia",Population: 4164783 },
        { Name:"Bosnia and Herzegovina",Population: 3503554 },
        { Name:"Albania",Population: 2934363 },
        { Name:"Macedonia",Population: 2085051 },
        { Name:"Slovenia",Population: 2081260 },
        { Name:"Montenegro",Population: 629219},
        { Name:"Malta",Population: 432089 },
        { Name:"Andorra",Population: 76953 },
        { Name:"Gibraltar",Population: 34733 },
        { Name:"San Marino",Population: 33557 },
        { Name:"Holy, See",Population: 801 },
    ]},
    {Name:"Western Europe", Population:92746859, Region:[
        { Name:"Germany", Population: 82293457 },
        { Name:"France", Population: 65233271 },
        { Name:"Netherlands", Population: 17084459 },
        { Name:"Belgium", Population: 11498519 },
        { Name:"Austria", Population: 8751820 },
        { Name:"Switzerland", Population: 8544034 },
        { Name:"Luxembourg", Population: 590321 },
        { Name:"Monaco", Population: 38897 },
        { Name:"Liechtenstein", Population: 38155 },
    ]},
    ]},
    ]
}
]

```

INDEX.JSX

```

{% raw %}
import { TreeMapComponent, LevelDirective, LevelsDirective, ILoadedEventArgs,
IDrillEndEventArgs } from '@syncfusion/ej2-react-treemap';
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { DrillDown } from './datasource';
export function App() {
    function loaded(args) {
        var header = document.getElementById('header');
        var population = 0;
        for (var i = 0; i <
args.treemap.layout.renderItems[0]['parent'].Continent.length; i++) {

```

```

        population +=
+ (args.treemap.layout.renderItems[0]['parent'].Continent[i]['data'].Population);
    }
    header.innerHTML = 'Continent - Population : ' + population
  }
  function drillEnd(args) {
    var header = document.getElementById('header');
    var layout =
document.getElementById("container_TreeMap_Squarified_Layout");
    var population = 0;
    if (args.treemap.layout.renderItems[0]['isDrilled']) {
      for (var i = 0; i < args.treemap.layout.renderItems.length; i++) {
        population +=
+ (args.treemap.layout.renderItems[i]['data'].Population);
      }
      header.innerHTML =
layout.children[0].children[1].innerHTML.split(' ')[1] + ' - ' + population;
    }
    else if (args.treemap.layout.renderItems[0]['parent'].Continent) {
      for (var i = 0; i <
args.treemap.layout.renderItems[0]['parent'].Continent.length; i++) {
        population +=
+ (args.treemap.layout.renderItems[0]['parent'].Continent[i]['data'].Population);
      }
      header.innerHTML = 'Continent - Population : ' + population;
    } else {
      population = args.treemap.layout.renderItems[0]['data'].Population;
      header.innerHTML =
layout.children[0].children[1].innerHTML.split(' ')[1] + ' - Population : ' +
population;
    }
  }
  return (
    <TreeMapComponent drillEnd={drillEnd} loaded={loaded} palette={
['#9999ff', '#CCFF99', '#FFFF99', '#FF9999', '#FF99FF', '#FFCC66']}
enableDrillDown={true} format={"n"} useGroupingSeparator={true}
dataSource={DrillDown} weightValuePath='Population' leafItemSettings={ {
  labelPath: 'Name',
  showLabels: false,
  labelStyle: { size: '0px' },
  border: { color: 'black', width: 0.5 }
} }>
    <LevelsDirective>
      <LevelDirective groupPath='Continent' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
      <LevelDirective groupPath='States' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
      <LevelDirective groupPath='Region' showHeader={false}
fill='#336699' border={ { color: 'black', width: 0.5 } } />
    </LevelsDirective>
  </TreeMapComponent>
);
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);

```

```
{% enddraw %}
```

INDEX.TSX

```
{% raw %}
import { TreeMapComponent, LevelDirective, LevelsDirective, ILoadedEventArgs,
IDrillEndEventArgs } from '@syncfusion/ej2-react-treemap';
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { DrillDown } from './datasource';
export function App() {
    function loaded(args: ILoadedEventArgs): void {
        let header: Element = document.getElementById('header') as Element;
        let population: number = 0;
        for (let i: number = 0; i <
args.treemap.layout.renderItems[0]['parent'].Continent.length; i++) {
            population +=
+ (args.treemap.layout.renderItems[0]['parent'].Continent[i]['data'].Population);
        }
        header.innerHTML = 'Continent - Population : ' + population
    }
    function drillEnd(args: IDrillEndEventArgs): void {
        let header: Element = document.getElementById('header') as Element;
        let layout: Element =
document.getElementById("container_TreeMap_Squarified_Layout") as Element;
        let population: number = 0;
        if (args.treemap.layout.renderItems[0]['isDrilled']) {
            for (let i: number = 0; i < args.treemap.layout.renderItems.length;
i++) {
                population +=
+ (args.treemap.layout.renderItems[i]['data'].Population);
            }
            header.innerHTML =
layout.children[0].children[1].innerHTML.split(' ')[1] + ' - ' + population;
        }
        else if (args.treemap.layout.renderItems[0]['parent'].Continent) {
            for (let i: number = 0; i <
args.treemap.layout.renderItems[0]['parent'].Continent.length; i++) {
                population +=
+ (args.treemap.layout.renderItems[0]['parent'].Continent[i]['data'].Population);
            }
            header.innerHTML = 'Continent - Population : ' + population;
        }
        else {
            population = args.treemap.layout.renderItems[0]['data'].Population;
            header.innerHTML =
layout.children[0].children[1].innerHTML.split(' ')[1] + ' - Population : ' +
population;
        }
    }
    return (
        <TreeMapComponent drillEnd={drillEnd} loaded={loaded} palette={
['#9999ff', '#CCFF99', '#FFFF99', '#FF9999', '#FF99FF', '#FFCC66']}
enableDrillDown={true} format={'n'} useGroupingSeparator={true}
dataSource={DrillDown} weightValuePath='Population' leafItemSettings={ {
```

```

        labelPath: 'Name',
        showLabels: false,
        labelStyle: { size: '0px' },
        border: { color: 'black', width: 0.5 }
    } }>
    <LevelsDirective>
        <LevelDirective groupPath='Continent' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
        <LevelDirective groupPath='States' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
        <LevelDirective groupPath='Region' showHeader={false}
fill='#336699' border={ { color: 'black', width: 0.5 } } />
    </LevelsDirective>
</TreeMapComponent>

);
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}

```

Drilldown with label in React Treemap component

You can add a label template as `<div>` element to the treemap control when using the label template. To add a label template to the tree map control, you have to hide another labels by setting the `showLabels` property to **false** in `leafItemSettings` to show only the label template.

To add label template to tree map drilldown, follow the given steps:

Step 1:

Create a treemap control and enable the drill-down option.

```

{% raw %}
`ts
import { TreeMapComponent, LevelDirective, LevelsDirective, ILoadedEventArgs, IDrillEndEventArgs }
from '@syncfusion/ej2-react-treemap';
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { CarSales } from './datasource';
export function App() {
    return (
        <TreeMapComponent weightValuePath='Sales' palette={['white']} enableDrillDown={true}
        dataSource={CarSales}
        leafItemSettings={ {
            showLabels: false,
            labelTemplate: '<div style="background-color: red">{:Company}</div>',
            templatePosition: 'Center'
        }
    }
    </TreeMapComponent>
    );
}

```

```

}}>
<LevelsDirective>
<LevelDirective groupPath='Continent' fill='#336699' border={ { color: 'black', width: 0.5 } } />
<LevelDirective groupPath='Company' fill='#336699' border={ { color: 'black', width: 0.5 } } />
</LevelsDirective>
</TreeMapComponent>
);
}

const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
`

{% enddraw %}

```

Step 2:

Add the label template in the `leafItemSettings` options, and then set the `showLabels` property to [Link to the Video](#) to hide another labels and show only label template.

DATASOURCE.JSX

```

/**
 * Election data for US
 */
//tslint:disable
export let CarSales = [
  { Continent: "China", Company: "Volkswagen", Sales: 3005994 },
  { Continent: "China", Company: "General Motors", Sales: 1230044 },
  { Continent: "China", Company: "Honda", Sales: 1197023 },
  { Continent: "United States", Company: "General Motors", Sales: 3042775 },
],
  { Continent: "United States", Company: "Ford", Sales: 2599193 },
  { Continent: "United States", Company: "Toyota", Sales: 2449587 },
  { Continent: "Japan", Company: "Toyota", Sales: 1527977 },
  { Continent: "Japan", Company: "Honda", Sales: 706982 },
  { Continent: "Japan", Company: "Suzuki", Sales: 623041 },
  { Continent: "Germany", Company: "Volkswagen", Sales: 655977 },
  { Continent: "Germany", Company: "Mercedes", Sales: 310845 },
  { Continent: "Germany", Company: "BMW", Sales: 261931 },
  { Continent: "United Kingdom", Company: "Ford ", Sales: 319442 },
  { Continent: "United Kingdom", Company: "Vauxhall", Sales: 251146 },
  { Continent: "United Kingdom", Company: "Volkswagen", Sales: 206994 }
];

```

DATASOURCE.TSX

```

/**
 * Election data for US
 */
//tslint:disable

```

```
export let CarSales: object[] = [
  { Continent: "China", Company: "Volkswagen", Sales: 3005994 },
  { Continent: "China", Company: "General Motors", Sales: 1230044 },
  { Continent: "China", Company: "Honda", Sales: 1197023 },
  { Continent: "United States", Company: "General Motors", Sales: 3042775 },
],
  { Continent: "United States", Company: "Ford", Sales: 2599193 },
  { Continent: "United States", Company: "Toyota", Sales: 2449587 },
  { Continent: "Japan", Company: "Toyota", Sales: 1527977 },
  { Continent: "Japan", Company: "Honda", Sales: 706982 },
  { Continent: "Japan", Company: "Suzuki", Sales: 623041 },
  { Continent: "Germany", Company: "Volkswagen", Sales: 655977 },
  { Continent: "Germany", Company: "Mercedes", Sales: 310845 },
  { Continent: "Germany", Company: "BMW", Sales: 261931 },
  { Continent: "United Kingdom", Company: "Ford ", Sales: 319442 },
  { Continent: "United Kingdom", Company: "Vauxhall", Sales: 251146 },
  { Continent: "United Kingdom", Company: "Volkswagen", Sales: 206994 }
]
```

INDEX.JSX

```
{% raw %}
import { TreeMapComponent, LevelDirective, LevelsDirective, ILoadedEventArgs,
IDrillEndEventArgs } from '@syncfusion/ej2-react-treemap';
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { CarSales } from './datasource';
export function App() {
  function drillStart(args) {
    var labelElementGroup =
document.getElementById('container_Label_Template_Group');
    labelElementGroup.remove();
  }
  return (
    <TreeMapComponent drillStart={drillStart} weightValuePath='Sales'
palette={['white']} enableDrillDown={true} dataSource={CarSales}
    leafItemSettings={ {
      showLabels: false,
      labelTemplate: '<div style="background-color:
red">{{:Company}}</div>',
      templatePosition: 'Center'
    } }>
      <LevelsDirective>
        <LevelDirective groupPath='Continent' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
        <LevelDirective groupPath='Company' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
      </LevelsDirective>
    </TreeMapComponent>
  );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
{% endraw %}
```


INDEX.TSX

```
import { TreeMapComponent, LevelDirective, LevelsDirective, ILoadedEventArgs,
IDrillEndEventArgs } from '@syncfusion/ej2-react-treemap';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { CarSales } from './datasource';
export function App() {
    function drillStart(args: IDrillStartEventArgs): void {
        let labelElementGroup: HTMLElement =
document.getElementById('container_Label_Template_Group') as HTMLElement;
        labelElementGroup.remove();
    }
    return (
        <TreeMapComponent drillStart={drillStart} weightValuePath='Sales'
palette={['white']} enableDrillDown={true} dataSource={CarSales}
        leafItemSettings={ {
            showLabels: false,
            labelTemplate: '<div style="background-color:
red">{:Company}</div>',
            templatePosition: 'Center'
        } }>
        <LevelsDirective>
            <LevelDirective groupPath='Continent' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
            <LevelDirective groupPath='Company' fill='#336699' border={ {
color: 'black', width: 0.5 } } />
        </LevelsDirective>
        </TreeMapComponent>
    );
}
const root = ReactDOM.createRoot(document.getElementById('container'));
root.render(<App />);
```

Treeview

Getting Started

Getting started

This section explains you the steps required to create a simple Grid and demonstrate the basic usage of the Grid component in React environment.

To get start quickly with React Grid, you can check on this video:

[Setup for Local Development](#)

To set-up a React application, choose any of the following ways. The best and easiest way is to use the [create-react-app](#). It sets up your development environment in JavaScript and improvise your application for production. Refer to the [installation instructions](#) of [create-react-app](#).

```
`bash
```

```
npx create-react-app my-app
```

```
cd my-app
```

```
npm start
```

`

or

```
`bash
```

```
yarn create react-app my-app
```

```
cd my-app
```

```
yarn start
```

`

To set-up a React application in **TypeScript** environment, run the following command.

```
`bash
```

```
npx create-react-app my-app --template typescript
```

```
cd my-app
```

```
npm start
```

`

Besides using the [npx](#) package runner tool, also create an application from the **npm init**. To begin with the **npm init**, upgrade the **npm** version to **npm 6+**.

```
`bash
```

```
npm init react-app my-app
```

```
cd my-app
```

```
npm start
```

`

Adding Syncfusion Grid packages

All the available Essential JS 2 packages are published in [npmjs.com](#) public registry.

To install Grid component, use the following command

`

```
npm install @syncfusion/ej2-react-grids --save
```

`

The `--save` will instruct NPM to include the Grid package inside of the **dependencies** section of the `package.json`.

Adding CSS reference

The following CSS files are available in `../node_modules/@syncfusion` package folder. This can be added as reference in **src/App.css**.

```
`css
```

```
@import '../node_modules/@syncfusion/ej2-base/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-buttons/styles/material.css';
```

```
@import '../node_modules/@syncfusion/ej2-calendars/styles/material.css';
@import '../node_modules/@syncfusion/ej2-dropdowns/styles/material.css';
@import '../node_modules/@syncfusion/ej2-inputs/styles/material.css';
@import '../node_modules/@syncfusion/ej2-navigations/styles/material.css';
@import '../node_modules/@syncfusion/ej2-popups/styles/material.css';
@import '../node_modules/@syncfusion/ej2-splitbuttons/styles/material.css';
@import '../node_modules/@syncfusion/ej2-notifications/styles/material.css';
@import "../node_modules/@syncfusion/ej2-react-grids/styles/material.css";
`
```

To refer **App.css** in the application then import it in the **src/App.tsx** file.

Adding Grid component

Now, you can start adding React Grid component in the application. For getting started, add the Grid component in **src/App.tsx** file using following code.

Place the following grid code in the **src/App.tsx**.

```
`ts
import { ColumnDirective, ColumnsDirective, GridComponent } from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from './datasource';
function App() {
  return <GridComponent dataSource={data}>
    <ColumnsDirective>
      <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
      <ColumnDirective field='CustomerID' width='100'/>
      <ColumnDirective field='EmployeeID' width='100' textAlign="Right"/>
      <ColumnDirective field='Freight' width='100' format="C2" textAlign="Right"/>
      <ColumnDirective field='ShipCountry' width='100'/>
    </ColumnsDirective>
  </GridComponent>
};
export default App;
`
```

Module Injection

React Grid component features are segregated into individual feature-wise modules.

In order to use a particular feature, you need to inject its feature service in the **App**.

In the current application, we are going to use paging, sorting, filtering and grouping feature of Grid.

Please find relevant feature service name and description as follows.

- **Page** - Inject this service to use paging feature.
- **Sort** - Inject this service to use sorting feature.
- **Filter** - Inject this service to use filtering feature.
- **Group** - Inject this service to use grouping feature.

These modules should be injected into the grid using the **Inject** directive.

Additional feature modules are available [here](#).

Enable Paging

The paging feature enables users to view the Grid record in a paged view.

It can be enabled by setting [allowPaging](#) property to true.

Inject the **Page** module in **Inject.services** as follows.

If the **Page** service is not injected, the pager will not be rendered in the grid.

Pager can be customized using [pageSettings](#) property.

APP.JSX

```
import { ColumnDirective, ColumnsDirective, Filter, GridComponent, Group,
Inject, Page, Sort } from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from '../datasource';
function App() {
    const pageSettings = { pageSize: 6 };
    return <GridComponent dataSource={data} allowPaging={true}
pageSettings={pageSettings}>
        <ColumnsDirective>
            <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
            <ColumnDirective field='CustomerID' width='100' />
            <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
            <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
            <ColumnDirective field='ShipCountry' width='100' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter, Group]}/>
    </GridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Filter, GridComponent, Group,
Inject, Page, PageSettingsModel, Sort } from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from '../datasource';
function App() {
    const pageSettings: PageSettingsModel = { pageSize: 6 }
```

```

    return <GridComponent dataSource={data} allowPaging={true} pageSettings={
pageSettings }>
      <ColumnsDirective>
        <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
        <ColumnDirective field='CustomerID' width='100' />
        <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
        <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
        <ColumnDirective field='ShipCountry' width='100' />
      </ColumnsDirective>
      <Inject services={[Page, Sort, Filter, Group]} />
    </GridComponent>
  };
  export default App;

```

DATASOURCE.JSX

```

export let data = [
  {
    OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
Date(8364186e5),
    ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
    ShipAddress: '59 rue de l Abbaye',
    ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
    Freight: 32.38, Verified: !0
  },
  {
    OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
Date(836505e6),
    ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
'Luisenstr. 48',
    ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
    Freight: 11.61, Verified: !1
  },
  {
    OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
Date(8367642e5),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
    Freight: 65.83, Verified: !0
  },
  {
    OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
Date(8367642e5),
    ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
rue du Commerce',
    ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
    Freight: 41.34, Verified: !0
  },
  {
    OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
Date(8368506e5),
    ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
'Boulevard Tirou, 255',

```

```

        ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
        Freight: 51.3, Verified: !0
    },
    {
        OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
        Date(836937e6),
        ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua do Paço, 67',
        ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
        Freight: 58.17, Verified: !0
    },
    {
        OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
        Date(8370234e5),
        ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
        'Hauptstr. 31',
        ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
        Freight: 22.98, Verified: !1
    },
    {
        OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
        Date(8371098e5),
        ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
        'Starenweg 5',
        ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
        Freight: 148.33, Verified: !0
    },
    {
        OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
        Date(837369e6),
        ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
        'Rua do Mercado, 12',
        ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
        Freight: 13.97, Verified: !1
    },
    {
        OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
        Date(8374554e5),
        ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
        'Carrera 22 con Ave. Carlos Soublette #8-35',
        ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
        'Venezuela', Freight: 81.91, Verified: !0
    },
    {
        OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
        Date(8375418e5),
        ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
        6',
        ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
        Freight: 140.51, Verified: !0
    },
    {
        OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
        Date(8376282e5),
        ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
        ShipAddress: 'Sierras de Granada 9993',

```

```

        ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
        Freight: 3.25, Verified: !1
    },
    {
        OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
        Date(8377146e5),
        ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
        'Mehrheimerstr. 369',
        ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
        Freight: 55.09, Verified: !0
    },
    {
        OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
        Date(8377146e5),
        ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua da Panificadora, 12',
        ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
        Freight: 3.05, Verified: !1
    },
    {
        OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
        Date(8379738e5),
        ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
        ShipAddress: '2817 Milton Dr.',
        ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
        Freight: 48.29, Verified: !0
    }
}
];

```

DATASOURCE.TSX

```

export let data: Object[] = [
    {
        OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
        Date(8364186e5),
        ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
        ShipAddress: '59 rue de l Abbaye',
        ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
        Freight: 32.38, Verified: !0
    },
    {
        OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
        Date(836505e6),
        ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
        'Luisenstr. 48',
        ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
        Freight: 11.61, Verified: !1
    },
    {
        OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
        Date(8367642e5),
        ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua do Paço, 67',
        ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
        Freight: 65.83, Verified: !0
    },
    {

```



```

{
    OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
Date(8367642e5),
    ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
rue du Commerce',
    ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
Freight: 41.34, Verified: !0
},
{
    OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
Date(8368506e5),
    ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
'Boulevard Tirou, 255',
    ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
Freight: 51.3, Verified: !0
},
{
    OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
Date(836937e6),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
Freight: 58.17, Verified: !0
},
{
    OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
Date(8370234e5),
    ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
'Hauptstr. 31',
    ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
Freight: 22.98, Verified: !1
},
{
    OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
Date(8371098e5),
    ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
'Starenweg 5',
    ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
Freight: 148.33, Verified: !0
},
{
    OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
Date(837369e6),
    ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
'Rua do Mercado, 12',
    ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
Freight: 13.97, Verified: !1
},
{
    OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
Date(8374554e5),
    ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
'Carrera 22 con Ave. Carlos Soublette #8-35',
    ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
'Venezuela', Freight: 81.91, Verified: !0
},
{

```

```

    OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
    Date(8375418e5),
    ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
    6',
    ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
    Freight: 140.51, Verified: !0
  },
  {
    OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
    Date(8376282e5),
    ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
    ShipAddress: 'Sierras de Granada 9993',
    ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
    Freight: 3.25, Verified: !1
  },
  {
    OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
    Date(8377146e5),
    ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
    'Mehrheimerstr. 369',
    ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
    Freight: 55.09, Verified: !0
  },
  {
    OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
    Date(8377146e5),
    ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
    'Rua da Panificadora, 12',
    ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
    Freight: 3.05, Verified: !1
  },
  {
    OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
    Date(8379738e5),
    ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
    ShipAddress: '2817 Milton Dr.',
    ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
    Freight: 48.29, Verified: !0
  }
];

```

Enable Sorting

The sorting feature enables you to order the records.

It can be enabled by setting the [allowSorting](#) property as true.

Inject the **Sort** module in the **Inject.services** as follows.

If the **Sort** module is not injected, you cannot sort when a header is clicked.

Sorting feature can be customized using [sortSettings](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter, GridComponent, Group }
from '@syncfusion/ej2-react-grids';
import { Inject, Page, Sort } from '@syncfusion/ej2-react-grids';
import * as React from 'react';

```

```
import { data } from './datasource';
function App() {
  const pageSettings = { pageSize: 6 };
  const sortSettings = { columns: [
    { field: 'EmployeeID', direction: 'Ascending' }
  ] };
  return <GridComponent dataSource={data} allowPaging={true}
pageSettings={pageSettings} allowSorting={true} sortSettings={sortSettings}>
    <ColumnsDirective>
      <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
      <ColumnDirective field='CustomerID' width='100' />
      <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
      <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
      <ColumnDirective field='ShipCountry' width='100' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter, Group]} />
  </GridComponent>;
}
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Filter, GridComponent, Group }
from '@syncfusion/ej2-react-grids';
import { Inject, Page, PageSettingsModel, Sort, SortSettingsModel } from
 '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from './datasource';
function App() {
  const pageSettings: PageSettingsModel = { pageSize: 6 }
  const sortSettings: SortSettingsModel = { columns: [
    { field: 'EmployeeID', direction: 'Ascending' }
  ] };
  return <GridComponent dataSource={data} allowPaging={true} pageSettings={
pageSettings }
allowSorting={true} sortSettings={ sortSettings }>
    <ColumnsDirective>
      <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
      <ColumnDirective field='CustomerID' width='100' />
      <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
      <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
      <ColumnDirective field='ShipCountry' width='100' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter, Group]} />
  </GridComponent>
};
export default App;
```

DATASOURCE.JSX

```
export let data = [
```

```

{
    OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
Date(8364186e5),
    ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
ShipAddress: '59 rue de l Abbaye',
    ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
Freight: 32.38, Verified: !0
},
{
    OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
Date(836505e6),
    ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
'Luisenstr. 48',
    ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
Freight: 11.61, Verified: !1
},
{
    OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
Date(8367642e5),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
Freight: 65.83, Verified: !0
},
{
    OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
Date(8367642e5),
    ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
rue du Commerce',
    ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
Freight: 41.34, Verified: !0
},
{
    OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
Date(8368506e5),
    ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
'Boulevard Tirou, 255',
    ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
Freight: 51.3, Verified: !0
},
{
    OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
Date(836937e6),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
Freight: 58.17, Verified: !0
},
{
    OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
Date(8370234e5),
    ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
'Hauptstr. 31',
    ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
Freight: 22.98, Verified: !1
},
{

```

```

    OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
Date(8371098e5),
    ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
'Starenweg 5',
    ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
Freight: 148.33, Verified: !0
    },
    {
        OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
Date(837369e6),
        ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
'Rua do Mercado, 12',
        ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
Freight: 13.97, Verified: !1
        },
        {
            OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
Date(8374554e5),
            ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
'Carrera 22 con Ave. Carlos Soublette #8-35',
            ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
'Venezuela', Freight: 81.91, Verified: !0
            },
            {
                OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
Date(8375418e5),
                ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
6',
                ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
Freight: 140.51, Verified: !0
                },
                {
                    OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
Date(8376282e5),
                    ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
ShipAddress: 'Sierras de Granada 9993',
                    ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
Freight: 3.25, Verified: !1
                    },
                    {
                        OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
Date(8377146e5),
                        ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
'Mehrheimerstr. 369',
                        ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
Freight: 55.09, Verified: !0
                        },
                        {
                            OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
Date(8377146e5),
                            ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua da Panificadora, 12',
                            ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
Freight: 3.05, Verified: !1
                            },
                            {

```

```

    OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
Date(8379738e5),
    ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
ShipAddress: '2817 Milton Dr.',
    ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
Freight: 48.29, Verified: !0
  }
];

```

DATASOURCE.TSX

```

export let data: Object[] = [
  {
    OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
Date(8364186e5),
    ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
ShipAddress: '59 rue de l Abbaye',
    ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
Freight: 32.38, Verified: !0
  },
  {
    OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
Date(836505e6),
    ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
'Luisenstr. 48',
    ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
Freight: 11.61, Verified: !1
  },
  {
    OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
Date(8367642e5),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
Freight: 65.83, Verified: !0
  },
  {
    OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
Date(8367642e5),
    ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
rue du Commerce',
    ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
Freight: 41.34, Verified: !0
  },
  {
    OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
Date(8368506e5),
    ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
'Boulevard Tirou, 255',
    ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
Freight: 51.3, Verified: !0
  },
  {
    OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
Date(836937e6),

```

```

        ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua do Paço, 67',
        ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
        Freight: 58.17, Verified: !0
    },
    {
        OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
        Date(8370234e5),
        ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
        'Hauptstr. 31',
        ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
        Freight: 22.98, Verified: !1
    },
    {
        OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
        Date(8371098e5),
        ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
        'Starenweg 5',
        ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
        Freight: 148.33, Verified: !0
    },
    {
        OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
        Date(837369e6),
        ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
        'Rua do Mercado, 12',
        ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
        Freight: 13.97, Verified: !1
    },
    {
        OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
        Date(8374554e5),
        ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
        'Carrera 22 con Ave. Carlos Soublette #8-35',
        ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
        'Venezuela', Freight: 81.91, Verified: !0
    },
    {
        OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
        Date(8375418e5),
        ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
        6',
        ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
        Freight: 140.51, Verified: !0
    },
    {
        OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
        Date(8376282e5),
        ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
        ShipAddress: 'Sierras de Granada 9993',
        ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
        Freight: 3.25, Verified: !1
    },
    {
        OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
        Date(8377146e5),

```



```

      ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
'Mehrheimerstr. 369',
      ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
Freight: 55.09, Verified: !0
    },
    {
      OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
Date(8377146e5),
      ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua da Panificadora, 12',
      ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
Freight: 3.05, Verified: !1
    },
    {
      OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
Date(8379738e5),
      ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
ShipAddress: '2817 Milton Dr.',
      ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
Freight: 48.29, Verified: !0
    }
  ]];

```

Enable Filtering

It can be enabled by setting the [allowFiltering](#) property as true.

Inject the [Filter](#) module in the **Inject.services** as follows.

If [Filter](#) module is not injected, filter bar will not be rendered in Grid.

Filtering feature can be customized using [filterSettings](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter, GridComponent } from
'@syncfusion/ej2-react-grids';
import { Group, Inject, Page, Sort } from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from '../datasource';
function App() {
  const pageSettings = { pageSize: 6 };
  const sortSettings = { columns: [
    { field: 'EmployeeID', direction: 'Ascending' }
  ] };
  const filterSettings = { columns: [
    { field: 'EmployeeID', operator: 'greaterthan', value: 2 }
  ] };
  return <GridComponent dataSource={data} allowPaging={true}
pageSettings={pageSettings} filterSettings={filterSettings}
allowSorting={true} sortSettings={sortSettings} allowFiltering={true}>
    <ColumnsDirective>
      <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
      <ColumnDirective field='CustomerID' width='100' />
      <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
      <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
      <ColumnDirective field='ShipCountry' width='100' />
    </ColumnsDirective>
  </GridComponent>

```

```

        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter, Group]}/>
    </GridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel,
GridComponent } from '@syncfusion/ej2-react-grids';
import { Group, Inject, Page, PageSettingsModel, Sort, SortSettingsModel }
from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from '../datasource';
function App() {
    const pageSettings: PageSettingsModel = { pageSize: 6 }
    const sortSettings: SortSettingsModel = { columns: [
        { field: 'EmployeeID', direction: 'Ascending' }
    ] };
    const filterSettings: FilterSettingsModel = { columns: [
        { field: 'EmployeeID', operator: 'greaterthan',
value: 2 }
    ] };
    return <GridComponent dataSource={data} allowPaging={true} pageSettings={
pageSettings }
        filterSettings = {filterSettings}
        allowSorting={true} sortSettings={ sortSettings }
allowFiltering={true}>
        <ColumnsDirective>
            <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
            <ColumnDirective field='CustomerID' width='100' />
            <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
            <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
            <ColumnDirective field='ShipCountry' width='100' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter, Group]} />
    </GridComponent>
};
export default App;

```

DATASOURCE.JSX

```

export let data = [
    {
        OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
Date(8364186e5),
        ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
ShipAddress: '59 rue de l Abbaye',
        ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
Freight: 32.38, Verified: !0
    },
    {

```

```

    OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
Date(836505e6),
    ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
'Luisenstr. 48',
    ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
Freight: 11.61, Verified: !1
    },
    {
        OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
Date(8367642e5),
        ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
        ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
Freight: 65.83, Verified: !0
        },
        {
            OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
Date(8367642e5),
            ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
rue du Commerce',
            ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
Freight: 41.34, Verified: !0
            },
            {
                OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
Date(8368506e5),
                ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
'Boulevard Tirou, 255',
                ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
Freight: 51.3, Verified: !0
                },
                {
                    OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
Date(836937e6),
                    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
                    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
Freight: 58.17, Verified: !0
                    },
                    {
                        OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
Date(8370234e5),
                        ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
'Hauptstr. 31',
                        ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
Freight: 22.98, Verified: !1
                        },
                        {
                            OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
Date(8371098e5),
                            ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
'Starenweg 5',
                            ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
Freight: 148.33, Verified: !0
                            },
                            {

```

```

    OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
Date(837369e6),
    ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
'Rua do Mercado, 12',
    ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
Freight: 13.97, Verified: !1
    },
    {
        OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
Date(8374554e5),
        ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
'Carrera 22 con Ave. Carlos Soublette #8-35',
        ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
'Venezuela', Freight: 81.91, Verified: !0
    },
    {
        OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
Date(8375418e5),
        ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
6',
        ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
Freight: 140.51, Verified: !0
    },
    {
        OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
Date(8376282e5),
        ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
ShipAddress: 'Sierras de Granada 9993',
        ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
Freight: 3.25, Verified: !1
    },
    {
        OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
Date(8377146e5),
        ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
'Mehrheimerstr. 369',
        ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
Freight: 55.09, Verified: !0
    },
    {
        OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
Date(8377146e5),
        ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua da Panificadora, 12',
        ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
Freight: 3.05, Verified: !1
    },
    {
        OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
Date(8379738e5),
        ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
ShipAddress: '2817 Milton Dr.',
        ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
Freight: 48.29, Verified: !0
    }
];

```

DATASOURCE.TSX

```

export let data: Object[] = [
  {
    OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
    Date(8364186e5),
    ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
    ShipAddress: '59 rue de l Abbaye',
    ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
    Freight: 32.38, Verified: !0
  },
  {
    OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
    Date(836505e6),
    ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
    'Luisenstr. 48',
    ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
    Freight: 11.61, Verified: !1
  },
  {
    OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
    Date(8367642e5),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
    'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
    Freight: 65.83, Verified: !0
  },
  {
    OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
    Date(8367642e5),
    ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
    rue du Commerce',
    ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
    Freight: 41.34, Verified: !0
  },
  {
    OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
    Date(8368506e5),
    ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
    'Boulevard Tirou, 255',
    ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
    Freight: 51.3, Verified: !0
  },
  {
    OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
    Date(836937e6),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
    'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
    Freight: 58.17, Verified: !0
  },
  {
    OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
    Date(8370234e5),

```

```

        ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
        'Hauptstr. 31',
        ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
        Freight: 22.98, Verified: !1
    },
    {
        OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
        Date(8371098e5),
        ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
        'Starenweg 5',
        ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
        Freight: 148.33, Verified: !0
    },
    {
        OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
        Date(837369e6),
        ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
        'Rua do Mercado, 12',
        ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
        Freight: 13.97, Verified: !1
    },
    {
        OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
        Date(8374554e5),
        ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
        'Carrera 22 con Ave. Carlos Soublette #8-35',
        ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
        'Venezuela', Freight: 81.91, Verified: !0
    },
    {
        OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
        Date(8375418e5),
        ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
        6',
        ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
        Freight: 140.51, Verified: !0
    },
    {
        OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
        Date(8376282e5),
        ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
        ShipAddress: 'Sierras de Granada 9993',
        ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
        Freight: 3.25, Verified: !1
    },
    {
        OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
        Date(8377146e5),
        ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
        'Mehrheimerstr. 369',
        ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
        Freight: 55.09, Verified: !0
    },
    {
        OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
        Date(8377146e5),

```

```

        ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua da Panificadora, 12',
        ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
        Freight: 3.05, Verified: !1
    },
    {
        OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
        Date(8379738e5),
        ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
        ShipAddress: '2817 Milton Dr.',
        ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
        Freight: 48.29, Verified: !0
    }
  ]];

```

Enable Grouping

The grouping feature enables you to view the grid record in a grouped view.

It can be enabled by setting [allowGrouping](#) property to true.

The [Group](#) module has to be injected as follows.

If [Group](#) module is not injected, the group drop area will not be rendered in Grid.

Grouping feature can be customized using [groupSettings](#) property.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter, GridComponent, Group }
from '@syncfusion/ej2-react-grids';
import { Inject, Page, Sort } from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from './datasource';
function App() {
    const pageSettings = { pageSize: 6 };
    const sortSettings = { columns: [
        { field: 'EmployeeID', direction: 'Ascending' }
    ] };
    const filterSettings = { columns: [
        { field: 'EmployeeID', operator: 'greaterthan', value: 2 }
    ] };
    const groupSettings = { columns: ['EmployeeID'] };
    return <GridComponent dataSource={data} allowPaging={true}
    pageSettings={pageSettings} filterSettings={filterSettings}
    allowGrouping={true} groupSettings={groupSettings} allowSorting={true}
    sortSettings={sortSettings} allowFiltering={true} height={180}>
        <ColumnsDirective>
            <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
            <ColumnDirective field='CustomerID' width='100' />
            <ColumnDirective field='EmployeeID' width='100'
            textAlign="Right"/>
            <ColumnDirective field='Freight' width='100' format="C2"
            textAlign="Right"/>
            <ColumnDirective field='ShipCountry' width='100' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter, Group]}/>
    </GridComponent>;
}

```



```
;
export default App;
```

APP.TSX

```
import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel,
GridComponent, Group, GroupSettingsModel } from '@syncfusion/ej2-react-
grids';
import { Inject, Page, PageSettingsModel, Sort, SortSettingsModel } from
 '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from './datasource';
function App() {
    const pageSettings: PageSettingsModel = { pageSize: 6 }
    const sortSettings: SortSettingsModel = { columns: [
        {field: 'EmployeeID', direction: 'Ascending' }
    ] };
    const filterSettings: FilterSettingsModel = { columns: [
        {field: 'EmployeeID', operator: 'greaterthan',
value: 2 }
    ] };
    const groupSettings: GroupSettingsModel = { columns: ['EmployeeID'] };
    return <GridComponent dataSource={data} allowPaging={true} pageSettings={
pageSettings }
        filterSettings={filterSettings} allowGrouping={true}
groupSettings={ groupSettings }
        allowSorting={true} sortSettings={ sortSettings }
allowFiltering={true} height={180}>
        <ColumnsDirective>
            <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
            <ColumnDirective field='CustomerID' width='100' />
            <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
            <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
            <ColumnDirective field='ShipCountry' width='100' />
        </ColumnsDirective>
        <Inject services={[Page, Sort, Filter, Group]} />
    </GridComponent>
};
export default App;
```

DATASOURCE.JSX

```
export let data = [
    {
        OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
Date(8364186e5),
        ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
ShipAddress: '59 rue de l Abbaye',
        ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
Freight: 32.38, Verified: !0
    },
    {
        OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
Date(836505e6),
```

```

        ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
        'Luisenstr. 48',
        ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
        Freight: 11.61, Verified: !1
    },
    {
        OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
        Date(8367642e5),
        ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua do Paço, 67',
        ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
        Freight: 65.83, Verified: !0
    },
    {
        OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
        Date(8367642e5),
        ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
        rue du Commerce',
        ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
        Freight: 41.34, Verified: !0
    },
    {
        OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
        Date(8368506e5),
        ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
        'Boulevard Tirou, 255',
        ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
        Freight: 51.3, Verified: !0
    },
    {
        OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
        Date(836937e6),
        ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua do Paço, 67',
        ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
        Freight: 58.17, Verified: !0
    },
    {
        OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
        Date(8370234e5),
        ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
        'Hauptstr. 31',
        ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
        Freight: 22.98, Verified: !1
    },
    {
        OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
        Date(8371098e5),
        ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
        'Starenweg 5',
        ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
        Freight: 148.33, Verified: !0
    },
    {
        OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
        Date(837369e6),

```

```

        ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
        'Rua do Mercado, 12',
        ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
        Freight: 13.97, Verified: !1
    },
    {
        OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
        Date(8374554e5),
        ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
        'Carrera 22 con Ave. Carlos Soublette #8-35',
        ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
        'Venezuela', Freight: 81.91, Verified: !0
    },
    {
        OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
        Date(8375418e5),
        ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
        6',
        ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
        Freight: 140.51, Verified: !0
    },
    {
        OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
        Date(8376282e5),
        ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
        ShipAddress: 'Sierras de Granada 9993',
        ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
        Freight: 3.25, Verified: !1
    },
    {
        OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
        Date(8377146e5),
        ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
        'Mehrheimerstr. 369',
        ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
        Freight: 55.09, Verified: !0
    },
    {
        OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
        Date(8377146e5),
        ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
        'Rua da Panificadora, 12',
        ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
        Freight: 3.05, Verified: !1
    },
    {
        OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
        Date(8379738e5),
        ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
        ShipAddress: '2817 Milton Dr.',
        ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
        Freight: 48.29, Verified: !0
    }
];

```

DATASOURCE.TSX

```

export let data: Object[] = [
  {
    OrderID: 10248, CustomerID: 'VINET', EmployeeID: 5, OrderDate: new
Date(8364186e5),
    ShipName: 'Vins et alcools Chevalier', ShipCity: 'Reims',
    ShipAddress: '59 rue de l Abbaye',
    ShipRegion: 'CJ', ShipPostalCode: '51100', ShipCountry: 'France',
    Freight: 32.38, Verified: !0
  },
  {
    OrderID: 10249, CustomerID: 'TOMSP', EmployeeID: 6, OrderDate: new
Date(836505e6),
    ShipName: 'Toms Spezialitäten', ShipCity: 'Münster', ShipAddress:
'Luisenstr. 48',
    ShipRegion: 'CJ', ShipPostalCode: '44087', ShipCountry: 'Germany',
    Freight: 11.61, Verified: !1
  },
  {
    OrderID: 10250, CustomerID: 'HANAR', EmployeeID: 4, OrderDate: new
Date(8367642e5),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
    Freight: 65.83, Verified: !0
  },
  {
    OrderID: 10251, CustomerID: 'VICTE', EmployeeID: 3, OrderDate: new
Date(8367642e5),
    ShipName: 'Victuailles en stock', ShipCity: 'Lyon', ShipAddress: '2,
rue du Commerce',
    ShipRegion: 'CJ', ShipPostalCode: '69004', ShipCountry: 'France',
    Freight: 41.34, Verified: !0
  },
  {
    OrderID: 10252, CustomerID: 'SUPRD', EmployeeID: 4, OrderDate: new
Date(8368506e5),
    ShipName: 'Suprêmes délices', ShipCity: 'Charleroi', ShipAddress:
'Boulevard Tirou, 255',
    ShipRegion: 'CJ', ShipPostalCode: 'B-6000', ShipCountry: 'Belgium',
    Freight: 51.3, Verified: !0
  },
  {
    OrderID: 10253, CustomerID: 'HANAR', EmployeeID: 3, OrderDate: new
Date(836937e6),
    ShipName: 'Hanari Carnes', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua do Paço, 67',
    ShipRegion: 'RJ', ShipPostalCode: '05454-876', ShipCountry: 'Brazil',
    Freight: 58.17, Verified: !0
  },
  {
    OrderID: 10254, CustomerID: 'CHOPS', EmployeeID: 5, OrderDate: new
Date(8370234e5),
    ShipName: 'Chop-suey Chinese', ShipCity: 'Bern', ShipAddress:
'Hauptstr. 31',
    ShipRegion: 'CJ', ShipPostalCode: '3012', ShipCountry: 'Switzerland',
    Freight: 22.98, Verified: !1
  },

```

```

{
    OrderID: 10255, CustomerID: 'RICSU', EmployeeID: 9, OrderDate: new
Date(8371098e5),
    ShipName: 'Richter Supermarkt', ShipCity: 'Genève', ShipAddress:
'Starenweg 5',
    ShipRegion: 'CJ', ShipPostalCode: '1204', ShipCountry: 'Switzerland',
Freight: 148.33, Verified: !0
},
{
    OrderID: 10256, CustomerID: 'WELLI', EmployeeID: 3, OrderDate: new
Date(837369e6),
    ShipName: 'Wellington Importadora', ShipCity: 'Resende', ShipAddress:
'Rua do Mercado, 12',
    ShipRegion: 'SP', ShipPostalCode: '08737-363', ShipCountry: 'Brazil',
Freight: 13.97, Verified: !1
},
{
    OrderID: 10257, CustomerID: 'HILAA', EmployeeID: 4, OrderDate: new
Date(8374554e5),
    ShipName: 'HILARION-Abastos', ShipCity: 'San Cristóbal', ShipAddress:
'Carrera 22 con Ave. Carlos Soublette #8-35',
    ShipRegion: 'Táchira', ShipPostalCode: '5022', ShipCountry:
'Venezuela', Freight: 81.91, Verified: !0
},
{
    OrderID: 10258, CustomerID: 'ERNSH', EmployeeID: 1, OrderDate: new
Date(8375418e5),
    ShipName: 'Ernst Handel', ShipCity: 'Graz', ShipAddress: 'Kirchgasse
6',
    ShipRegion: 'CJ', ShipPostalCode: '8010', ShipCountry: 'Austria',
Freight: 140.51, Verified: !0
},
{
    OrderID: 10259, CustomerID: 'CENTC', EmployeeID: 4, OrderDate: new
Date(8376282e5),
    ShipName: 'Centro comercial Moctezuma', ShipCity: 'México D.F.',
ShipAddress: 'Sierras de Granada 9993',
    ShipRegion: 'CJ', ShipPostalCode: '05022', ShipCountry: 'Mexico',
Freight: 3.25, Verified: !1
},
{
    OrderID: 10260, CustomerID: 'OTTIK', EmployeeID: 4, OrderDate: new
Date(8377146e5),
    ShipName: 'Ottilies Käseladen', ShipCity: 'Köln', ShipAddress:
'Mehrheimerstr. 369',
    ShipRegion: 'CJ', ShipPostalCode: '50739', ShipCountry: 'Germany',
Freight: 55.09, Verified: !0
},
{
    OrderID: 10261, CustomerID: 'QUEDE', EmployeeID: 4, OrderDate: new
Date(8377146e5),
    ShipName: 'Que Delícia', ShipCity: 'Rio de Janeiro', ShipAddress:
'Rua da Panificadora, 12',
    ShipRegion: 'RJ', ShipPostalCode: '02389-673', ShipCountry: 'Brazil',
Freight: 3.05, Verified: !1
},
{

```

```

      OrderID: 10262, CustomerID: 'RATTC', EmployeeID: 8, OrderDate: new
      Date(8379738e5),
      ShipName: 'Rattlesnake Canyon Grocery', ShipCity: 'Albuquerque',
      ShipAddress: '2817 Milton Dr.',
      ShipRegion: 'NM', ShipPostalCode: '87110', ShipCountry: 'USA',
      Freight: 48.29, Verified: !0
    }
  ];

```

Run the application

The [create-react-app](#) will pre-configure the project to compile and run the application in browser. Use the following command to run the application.

,

npm start

,

Output will be appears as follows.

APP.JSX

```

import { ColumnDirective, ColumnsDirective, Filter, GridComponent, Group }
from '@syncfusion/ej2-react-grids';
import { Inject, Page, Sort } from '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from './datasource';
function App() {
  const pageSettings = { pageSize: 6 };
  const sortSettings = { columns: [
    { field: 'EmployeeID', direction: 'Ascending' }
  ] };
  const filterSettings = { columns: [
    { field: 'EmployeeID', operator: 'greaterthan', value: 2 }
  ] };
  const groupSettings = { columns: ['EmployeeID'] };
  return <GridComponent dataSource={data} allowPaging={true}
    pageSettings={pageSettings} filterSettings={filterSettings}
    allowGrouping={true} groupSettings={groupSettings} allowSorting={true}
    sortSettings={sortSettings} allowFiltering={true} height={180}>
    <ColumnsDirective>
      <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
      <ColumnDirective field='CustomerID' width='100' />
      <ColumnDirective field='EmployeeID' width='100'
    textAlign="Right"/>
      <ColumnDirective field='Freight' width='100' format="C2"
    textAlign="Right"/>
      <ColumnDirective field='ShipCountry' width='100' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter, Group]}/>
  </GridComponent>;
}
;
export default App;

```

APP.TSX

```

import { ColumnDirective, ColumnsDirective, Filter, FilterSettingsModel,
GridComponent, Group, GroupSettingsModel } from '@syncfusion/ej2-react-
grids';
import { Inject, Page, PageSettingsModel, Sort, SortSettingsModel } from
 '@syncfusion/ej2-react-grids';
import * as React from 'react';
import { data } from './datasource';
function App() {
  const pageSettings: PageSettingsModel = { pageSize: 6 };
  const sortSettings: SortSettingsModel = { columns: [
    {field: 'EmployeeID', direction: 'Ascending' }
  ] };
  const filterSettings: FilterSettingsModel = { columns: [
    {field: 'EmployeeID', operator: 'greaterthan',
value: 2 }
  ] };
  const groupSettings: GroupSettingsModel = { columns: ['EmployeeID'] };
  return <GridComponent dataSource={data} allowPaging={true} pageSettings={
pageSettings }
    filterSettings = {filterSettings} allowGrouping={true}
groupSettings={ groupSettings }
    allowSorting={true} sortSettings={ sortSettings }
allowFiltering={true} height={180}>
    <ColumnsDirective>
      <ColumnDirective field='OrderID' width='100' textAlign="Right"/>
      <ColumnDirective field='CustomerID' width='100' />
      <ColumnDirective field='EmployeeID' width='100'
textAlign="Right"/>
      <ColumnDirective field='Freight' width='100' format="C2"
textAlign="Right"/>
      <ColumnDirective field='ShipCountry' width='100' />
    </ColumnsDirective>
    <Inject services={[Page, Sort, Filter, Group]} />
  </GridComponent>
};
export default App;

```

You can refer to our [React Grid](#) feature tour page for its groundbreaking feature representations. You can also explore our [React Grid Component example](#) that shows how to render the Grid in React.

See also

- [Top 5 Features of React Data Grid](#)
- [How to render React Grid with bootstrap theme](#)

Getting Started with the React TreeView Component in the Preact Framework

This article provides a step-by-step guide for setting up a [Preact](#) project and integrating the Syncfusion React TreeView component.

Preact is a fast and lightweight JavaScript library for building user interfaces. It's often used as an alternative to larger frameworks like React. The key difference is that Preact is designed to be smaller in size and faster in performance, making it a good choice for projects where file size and load times are critical factors.

Prerequisites

[System requirements for Syncfusion React UI components](#)

Set up the Preact project

To create a new **Preact** project, use one of the commands that are specific to either NPM or Yarn.

```
`bash
```

```
npm init preact
```

```
,
```

or

```
`bash
```

```
yarn init preact
```

```
,
```

Using one of the above commands will lead you to set up additional configurations for the project, as below:

1\ Define the project name: We can specify the name of the project directly. Let's specify the name of the project as **my-project** for this article.

```
`bash
```

```
T Preact - Fast 3kB alternative to React with the same modern API
```

```
|
```

- Project directory:

```
| my-project
```

```
—
```

```
,
```

2\ Choose **JavaScript** as the framework variant to build this Preact project using JavaScript and React.

```
`bash
```

```
T Preact - Fast 3kB alternative to React with the same modern API
```

```
|
```

- Project language:

```
| > JavaScript
```

```
| TypeScript
```

```
—
```

```
,
```

3\ Then configure the project as below for this article.

```
`bash
```

T Preact - Fast 3kB alternative to React with the same modern API

|

- Use router?

| Yes / > No

—

|

- Prerender app (SSG)?

| Yes / > No

—

|

- Use ESLint?

| Yes / > No

—

,

5\ Upon completing the aforementioned steps to create `my-project`, run the following command to jump into the project directory:

```
`bash
```

```
cd my-project
```

,

Now that `my-project` is ready to run with default settings, let's add Syncfusion components to the project.

Add the Syncfusion React packages

Syncfusion React component packages are available at [npmjs.com](https://www.npmjs.com). To use Syncfusion React components in the project, install the corresponding npm package.

This article uses the [React TreeView component](#) as an example. To use the React TreeView component in the project, the `@syncfusion/ej2-react-navigations` package needs to be installed using the following command:

```
`bash
```

```
npm install @syncfusion/ej2-react-navigations --save
```

,

or

```
`bash
```

```
yarn add @syncfusion/ej2-react-navigations
```

Import Syncfusion CSS styles

You can import themes for the Syncfusion React component in various ways, such as using CSS or SASS styles from npm packages, CDN, CRG and [Theme Studio](#). Refer to [themes topic](#) to know more about built-in themes and different ways to refer to theme's in a React project.

In this article, the **Material 3** theme is applied using CSS styles, which are available in installed packages. The necessary **Material 3** CSS styles for the TreeView component and its dependents were imported into the **src/style.css** file.

~/SRC/STYLE.CSS

```
/* import the TreeView dependency styles */
@import "../node_modules/@syncfusion/ej2-base/styles/material3.css";
@import "../node_modules/@syncfusion/ej2-react-navigations/styles/material3.css";
@import "../node_modules/@syncfusion/ej2-inputs/styles/material3.css";
@import "../node_modules/@syncfusion/ej2-buttons/styles/material3.css";
```

The order of importing CSS styles should be in line with its dependency graph.

Add the Syncfusion React component

Follow the below steps to add the React TreeView component to the Vite project:

1\ Before adding the TreeView component to your markup, import the TreeView component in the **src/index.jsx** file.

~/SRC/INDEX.JSX

```
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
```

2\ Then, define the TreeView component with the [dataSource](#) property. Declare the values for the **dataSource** property.

~/SRC/INDEX.JSX

```
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { render } from 'preact';
import './style.css';
function App() {
  // define the array of data
  const hierarchicalData = [
    {
      id: '01', name: 'Local Disk (C:)', expanded: true,
      subChild: [
        {
          id: '01-01', name: 'Program Files',
          subChild: [
            { id: '01-01-01', name: '7-Zip' },
            { id: '01-01-02', name: 'Git' },
            { id: '01-01-03', name: 'IIS Express' },
          ]
        }
      ]
    }
  ],
```

```

{
  id: '01-02', name: 'Users', expanded: true,
  subChild: [
    { id: '01-02-01', name: 'Smith' },
    { id: '01-02-02', name: 'Public' },
    { id: '01-02-03', name: 'Admin' },
  ]
},
{
  id: '01-03', name: 'Windows',
  subChild: [
    { id: '01-03-01', name: 'Boot' },
    { id: '01-03-02', name: 'FileManager' },
    { id: '01-03-03', name: 'System32' },
  ]
},
],
},
{
  id: '02', name: 'Local Disk (D:)',
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ]
},
{
  id: '03', name: 'Local Disk (E:)', icon: 'folder',
  subChild: [
    {
      id: '03-01', name: 'Pictures',
      subChild: [
        { id: '03-01-01', name: 'Wind.jpg' },
        { id: '03-01-02', name: 'Stone.jpg' },
        { id: '03-01-03', name: 'Home.jpg' },
      ]
    }
  ]
}

```

```

    },
    {
      id: '03-02', name: 'Documents',
      subChild: [
        { id: '03-02-01', name: 'Environment Pollution.docx' },
        { id: '03-02-02', name: 'Global Warming.ppt' },
        { id: '03-02-03', name: 'Social Network.pdf' },
      ]
    },
    {
      id: '03-03', name: 'Study Materials',
      subChild: [
        { id: '03-03-01', name: 'UI-Guide.pdf' },
        { id: '03-03-02', name: 'Tutorials.zip' },
        { id: '03-03-03', name: 'TypeScript.7z' },
      ]
    },
  ],
];

const fields = { dataSource: hierarchicalData, id: 'id', text: 'name', child:
'subChild' };
return (
  // specifies the tag for render the TreeView component
  <TreeViewComponent fields={fields}/>);
}
render(<App />, document.querySelector('#app'));

```

Run the project

To run the project, use the following command:

```
`bash
```

```
npm run dev
```

```
,
```

or

```
`bash
```

```
yarn run dev
```

```
,
```

The output will appear as follows:



See also

[Getting Started with the Syncfusion React UI Component](#)

Data binding in React Treeview component

The TreeView component provides the option to load data either from local data sources or from remote data services. This can be done through `dataSource` property that is a member of the `fields` property. The `dataSource` property supports array of JavaScript objects and **DataManager**. It also supports different kinds of data services such as OData, OData V4, Web API, URL, and JSON with the help of `DataManager` adaptors.

TreeView has `load on demand` (Lazy load), by default. It reduces the bandwidth size when consuming huge data. It loads first level nodes initially, and when parent node is expanded, loads the child nodes based on the `parentID/child` member.

By default, the `loadOnDemand` is set to true. By disabling this property, all the tree nodes are rendered at the beginning itself.

You can use the `dataBound` event to perform actions. This event will be triggered once the data source is populated in the TreeView.

Local data

To bind local data to the TreeView, you can assign a JavaScript object array to the `dataSource` property. The TreeView component requires three fields (ID, text, and parentID) to render local data source. When mapper fields are not specified, it takes the default values as the mapping fields. Local data source can also be provided as an instance of the `DataManager`.

It supports two kinds of local data binding methods.

- Hierarchical data
- Self-referential data

Hierarchical data

TreeView can be populated with hierarchical data source that contains nested array of JSON objects. You can directly assign hierarchical data to the `dataSource` property, and map all the field members with corresponding keys from the hierarchical data to `fields` property.

In the following example, **code**, **name**, and **countries** columns from hierarchical data have been mapped to **id**, **child**, and **text** fields, respectively.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the array of data
    let continents = [
        {
            code: 'AF', name: 'Africa', countries: [
                { code: 'NGA', name: 'Nigeria' },
                { code: 'EGY', name: 'Egypt' },
                { code: 'ZAF', name: 'South Africa' }
            ]
        }
    ]
}
```

```

    ],
    {
      code: 'AS', name: 'Asia', expanded: true, countries: [
        { code: 'CHN', name: 'China' },
        { code: 'IND', name: 'India', selected: true },
        { code: 'JPN', name: 'Japan' }
      ]
    },
    {
      code: 'EU', name: 'Europe', countries: [
        { code: 'DNK', name: 'Denmark' },
        { code: 'FIN', name: 'Finland' },
        { code: 'AUT', name: 'Austria' }
      ]
    },
    {
      code: 'NA', name: 'North America', countries: [
        { code: 'USA', name: 'United States of America' },
        { code: 'CUB', name: 'Cuba' },
        { code: 'MEX', name: 'Mexico' }
      ]
    },
    {
      code: 'SA', name: 'South America', countries: [
        { code: 'BRA', name: 'Brazil' },
        { code: 'COL', name: 'Colombia' },
        { code: 'ARG', name: 'Argentina' }
      ]
    },
    {
      code: 'OC', name: 'Oceania', countries: [
        { code: 'AUS', name: 'Australia' },
        { code: 'NZL', name: 'New Zealand' },
        { code: 'WSM', name: 'Samoa' }
      ]
    },
    {
      code: 'AN', name: 'Antarctica', countries: [
        { code: 'BVT', name: 'Bouvet Island' },
        { code: 'ATF', name: 'French Southern Lands' }
      ]
    },
  ],
];
let field = { dataSource: continents, id: 'code', text: 'name', child:
'countries' };
return (
  // specifies the tag for render the TreeView component
  <TreeViewComponent fields={field}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```
import * as React from 'react';
```



```

import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
    // define the array of data
    let continents: { [key: string]: Object }[] = [
        {
            code: 'AF', name: 'Africa', countries: [
                { code: 'NGA', name: 'Nigeria' },
                { code: 'EGY', name: 'Egypt' },
                { code: 'ZAF', name: 'South Africa' }
            ]
        },
        {
            code: 'AS', name: 'Asia', expanded: true, countries: [
                { code: 'CHN', name: 'China' },
                { code: 'IND', name: 'India', selected: true },
                { code: 'JPN', name: 'Japan' }
            ]
        },
        {
            code: 'EU', name: 'Europe', countries: [
                { code: 'DNK', name: 'Denmark' },
                { code: 'FIN', name: 'Finland' },
                { code: 'AUT', name: 'Austria' }
            ]
        },
        {
            code: 'NA', name: 'North America', countries: [
                { code: 'USA', name: 'United States of America' },
                { code: 'CUB', name: 'Cuba' },
                { code: 'MEX', name: 'Mexico' }
            ]
        },
        {
            code: 'SA', name: 'South America', countries: [
                { code: 'BRA', name: 'Brazil' },
                { code: 'COL', name: 'Colombia' },
                { code: 'ARG', name: 'Argentina' }
            ]
        },
        {
            code: 'OC', name: 'Oceania', countries: [
                { code: 'AUS', name: 'Australia' },
                { code: 'NZL', name: 'New Zealand' },
                { code: 'WSM', name: 'Samoa' }
            ]
        },
        {
            code: 'AN', name: 'Antarctica', countries: [
                { code: 'BVT', name: 'Bouvet Island' },
                { code: 'ATF', name: 'French Southern Lands' }
            ]
        }
    ],
};

```

```

let field: object = { dataSource: continents, id: 'code', text: 'name',
child: 'countries' }
return (
  // specifies the tag for render the TreeView component
  <TreeViewComponent fields={field} />
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Self-referential data

TreeView can be populated from self-referential data structure that contains array of JSON objects with **parentID** mapping.

You can directly assign self-referential data to the **dataSource** property, and map all the field members with corresponding keys from self-referential data to **fields** property.

To render the root level nodes, specify the **parentID** as null or no need to specify the **parentID** in **dataSource**.

In the following example, **ID**, **pid**, **hasChild**, and **name** columns from self-referential data have been mapped to **ID**, **parentID**, **hasChildren**, and **text** fields, respectively.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
  // define the JSON of data
  let localData = [
    { id: 1, name: 'Discover Music', hasChild: true, expanded: true },
    { id: 2, pid: 1, name: 'Hot Singles' },
    { id: 3, pid: 1, name: 'Rising Artists' },
    { id: 4, pid: 1, name: 'Live Music' },
    { id: 7, name: 'Sales and Events', hasChild: true },
    { id: 8, pid: 7, name: '100 Albums - $5 Each' },
    { id: 9, pid: 7, name: 'Hip-Hop and R&B Sale' },
    { id: 10, pid: 7, name: 'CD Deals' },
    { id: 11, name: 'Categories', hasChild: true },
    { id: 12, pid: 11, name: 'Songs' },
    { id: 13, pid: 11, name: 'Bestselling Albums' },
    { id: 14, pid: 11, name: 'New Releases' },
    { id: 15, pid: 11, name: 'Bestselling Songs' },
    { id: 16, name: 'MP3 Albums', hasChild: true },
    { id: 17, pid: 16, name: 'Rock' },
    { id: 18, pid: 16, name: 'Gospel' },
    { id: 19, pid: 16, name: 'Latin Music' },
    { id: 20, pid: 16, name: 'Jazz' },
    { id: 21, name: 'More in Music', hasChild: true },
    { id: 22, pid: 21, name: 'Music Trade-In' },
    { id: 23, pid: 21, name: 'Redeem a Gift Card' },
    { id: 24, pid: 21, name: 'Band T-Shirts' },
  ];
}

```

```

    // maps the appropriate column to fields property
    let field = { dataSource: localData, id: 'id', parentID: 'pid', text:
'name',
    hasChildren: 'hasChild' };
    return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={field}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let localData: { [key: string]: Object }[] = [
        { id: 1, name: 'Discover Music', hasChild: true, expanded: true
},
        { id: 2, pid: 1, name: 'Hot Singles' },
        { id: 3, pid: 1, name: 'Rising Artists' },
        { id: 4, pid: 1, name: 'Live Music' },
        { id: 7, name: 'Sales and Events', hasChild: true },
        { id: 8, pid: 7, name: '100 Albums - $5 Each' },
        { id: 9, pid: 7, name: 'Hip-Hop and R&B Sale' },
        { id: 10, pid: 7, name: 'CD Deals' },
        { id: 11, name: 'Categories', hasChild: true },
        { id: 12, pid: 11, name: 'Songs' },
        { id: 13, pid: 11, name: 'Bestselling Albums' },
        { id: 14, pid: 11, name: 'New Releases' },
        { id: 15, pid: 11, name: 'Bestselling Songs' },
        { id: 16, name: 'MP3 Albums', hasChild: true },
        { id: 17, pid: 16, name: 'Rock' },
        { id: 18, pid: 16, name: 'Gospel' },
        { id: 19, pid: 16, name: 'Latin Music' },
        { id: 20, pid: 16, name: 'Jazz' },
        { id: 21, name: 'More in Music', hasChild: true },
        { id: 22, pid: 21, name: 'Music Trade-In' },
        { id: 23, pid: 21, name: 'Redeem a Gift Card' },
        { id: 24, pid: 21, name: 'Band T-Shirts' },
    ];
    // maps the appropriate column to fields property
    let field: Object = { dataSource: localData, id: 'id', parentID: 'pid',
text: 'name',
    hasChildren: 'hasChild' };
    return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={field} />
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Remote data

TreeView can also be populated from a remote data service with the help of **DataManager** component and

Query property.

It supports different kinds of data services such as OData, OData V4, Web API, URL, and JSON with the help of **DataManager** adaptors.

You can assign service data as an instance of **DataManager** to the **dataSource** property. To interact with remote data source, you have to provide the endpoint **url**.

The **DataManager** that acts as an interface between the service endpoint and the TreeView requires the following information to interact with service endpoint properly.

- **DataManager->url**: Defines the service endpoint to fetch data.
- **DataManager->adaptor**: Defines the adaptor option. By default, **ODataAdaptor** is used for remote binding.

Adaptor is responsible for processing response and request from/to the service endpoint. The **@syncfusion/ej2-data** package provides some predefined adaptors designed to interact with service endpoints. They are,

- **UrlAdaptor**: Used to interact with remote services. This is the base adaptor for all remote based adaptors.
- **ODataAdaptor**: Used to interact with OData endpoints.
- **ODataV4Adaptor**: Used to interact with OData V4 endpoints.
- **WebApiAdaptor**: Used to interact with Web API created under OData standards.
- **WebMethodAdaptor**: Used to interact with web methods.

In the following example, **ODataV4Adaptor** is used to fetch data from remote services. The **EmployeeID**, **FirstName**, and **Title** columns from Employees table have been mapped to **ID**, **text**, and **hasChildren** fields respectively for first level nodes.

The **OrderID**, **EmployeeID**, and **ShipName** columns from orders table have been mapped to **ID**, **parentID**, and **text** fields respectively for second level nodes.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { DataManager, Query, ODataV4Adaptor } from '@syncfusion/ej2-data';
function App() {
    let data = new DataManager({
        url: 'https://services.odata.org/V4/Northwind/Northwind.svc',
        adaptor: new ODataV4Adaptor,
        crossDomain: true,
```

```

    });
    let query = new
Query().from('Employees').select('EmployeeID,FirstName,Title').take(5);
    let query1 = new
Query().from('Orders').select('OrderID,EmployeeID,ShipName').take(5);
    let fields = { dataSource: data, query: query, id: 'EmployeeID', text:
'FirstName', hasChildren: 'EmployeeID', tooltip: 'Title',
        child: { dataSource: data, query: query1, id: 'OrderID', parentID:
'EmployeeID', text: 'ShipName' }
    };
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={fields}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
import { DataManager, Query, ODataV4Adaptor } from '@syncfusion/ej2-data';
function App() {
    let data: DataManager = new DataManager({
        url: 'https://services.odata.org/V4/Northwind/Northwind.svc',
        adaptor: new ODataV4Adaptor,
        crossDomain: true,
    });
    let query: Query = new
Query().from('Employees').select('EmployeeID,FirstName,Title').take(5);
    let query1: Query = new
Query().from('Orders').select('OrderID,EmployeeID,ShipName').take(5);
    let fields: object = { dataSource: data, query: query, id: 'EmployeeID',
text: 'FirstName', hasChildren: 'EmployeeID', tooltip: 'Title',
        child: { dataSource: data, query: query1, id: 'OrderID', parentID:
'EmployeeID', text: 'ShipName' }
    };
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={fields} />
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Check box in React Treeview component

The TreeView component allows you to check more than one node in TreeView without affecting the UI's appearance by enabling the [showCheckBox](#) property. When this property is enabled, checkbox appears before each TreeView node text.

- If one of the child nodes is not in a checked state, then the parent node will be in an intermediate state.
- If all the child nodes are in checked state, then the parent node's state will also be checked.
- If a parent node is checked, then all the child nodes' state will also be checked.

By default, the checkbox state of parent and child nodes are dependent on each other. If you need independent checked state, you can achieve it using the [autoCheck](#) property.

Using the [checkedNodes](#) property, you can set the nodes that need to be checked or get the ID of nodes that are currently checked in the TreeView component.

If you need to prevent the node check action for a particular node, the [nodeChecking](#) event can be used which is triggered before the TreeView node is checked/unchecked. The [nodeChecked](#) event will be triggered when the TreeView node is checked/unchecked successfully.

In the following example, the `showCheckBox` property is enabled.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let countries = [
        { id: 1, name: 'Australia', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'New South Wales' },
        { id: 3, pid: 1, name: 'Victoria' },
        { id: 4, pid: 1, name: 'South Australia' },
        { id: 6, pid: 1, name: 'Western Australia' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'China', hasChild: true },
        { id: 12, pid: 11, name: 'Guangzhou' },
        { id: 13, pid: 11, name: 'Shanghai' },
        { id: 14, pid: 11, name: 'Beijing' },
        { id: 15, pid: 11, name: 'Shantou' },
        { id: 16, name: 'France', hasChild: true },
        { id: 17, pid: 16, name: 'Pays de la Loire' },
        { id: 18, pid: 16, name: 'Aquitaine' },
        { id: 19, pid: 16, name: 'Brittany' },
        { id: 20, pid: 16, name: 'Lorraine' },
        { id: 21, name: 'India', hasChild: true },
        { id: 22, pid: 21, name: 'Assam' },
        { id: 23, pid: 21, name: 'Bihar' },
        { id: 24, pid: 21, name: 'Tamil Nadu' },
        { id: 25, pid: 21, name: 'Punjab' }
    ];
    let field = { dataSource: countries, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild' };
    let isChecked = true;
    return (
```

```
// specifies the tag for render the TreeView component
<TreeViewComponent fields={field} showCheckBox={isChecked}/>;
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let countries: { [key: string]: Object }[] = [
        { id: 1, name: 'Australia', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'New South Wales' },
        { id: 3, pid: 1, name: 'Victoria' },
        { id: 4, pid: 1, name: 'South Australia' },
        { id: 6, pid: 1, name: 'Western Australia' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'China', hasChild: true },
        { id: 12, pid: 11, name: 'Guangzhou' },
        { id: 13, pid: 11, name: 'Shanghai' },
        { id: 14, pid: 11, name: 'Beijing' },
        { id: 15, pid: 11, name: 'Shantou' },
        { id: 16, name: 'France', hasChild: true },
        { id: 17, pid: 16, name: 'Pays de la Loire' },
        { id: 18, pid: 16, name: 'Aquitaine' },
        { id: 19, pid: 16, name: 'Brittany' },
        { id: 20, pid: 16, name: 'Lorraine' },
        { id: 21, name: 'India', hasChild: true },
        { id: 22, pid: 21, name: 'Assam' },
        { id: 23, pid: 21, name: 'Bihar' },
        { id: 24, pid: 21, name: 'Tamil Nadu' },
        { id: 25, pid: 21, name: 'Punjab' }
    ];
    let field: Object = { dataSource: countries, id: 'id', parentID: 'pid',
text: 'name', hasChildren: 'hasChild' };
    let isChecked: boolean = true;
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={field} showCheckBox={isChecked} />
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

Checked nodes

You can get or set the checked nodes in TreeView at initial rendering and dynamically by using the [checkedNodes](#) property. It returns the checked nodes' ID as an array.

In the following example, the **New South Wales** and **Western Australia** nodes are checked at initial rendering. If any more nodes are checked, the checked nodes' IDs will be displayed in alert.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let countries = [
        { id: 1, name: 'Australia', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'New South Wales', isChecked: true },
        { id: 3, pid: 1, name: 'Victoria' },
        { id: 4, pid: 1, name: 'South Australia' },
        { id: 6, pid: 1, name: 'Western Australia', isChecked: true },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'China', hasChild: true },
        { id: 12, pid: 11, name: 'Guangzhou' },
        { id: 13, pid: 11, name: 'Shanghai' },
        { id: 14, pid: 11, name: 'Beijing' },
        { id: 15, pid: 11, name: 'Shantou' },
        { id: 16, name: 'France', hasChild: true },
        { id: 17, pid: 16, name: 'Pays de la Loire' },
        { id: 18, pid: 16, name: 'Aquitaine' },
        { id: 19, pid: 16, name: 'Brittany' },
        { id: 20, pid: 16, name: 'Lorraine' },
        { id: 21, name: 'India', hasChild: true },
        { id: 22, pid: 21, name: 'Assam' },
        { id: 23, pid: 21, name: 'Bihar' },
        { id: 24, pid: 21, name: 'Tamil Nadu' },
        { id: 25, pid: 21, name: 'Punjab' }
    ];
    let field = { dataSource: countries, id: 'id', parentID: 'pid', text:
    'name', hasChildren: 'hasChild' };
    let isChecked = true;
    function nodeChecked(args) {
        alert("The checked node's id: " + checkedNodes); // To alert the
        checked node's id.
    }
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={field} showCheckBox={isChecked}
        nodeChecked={nodeChecked}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```
import * as React from 'react';
```

```

import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent, NodeCheckEventArgs } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let countries: { [key: string]: Object }[] = [
        { id: 1, name: 'Australia', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'New South Wales', isChecked: true },
        { id: 3, pid: 1, name: 'Victoria' },
        { id: 4, pid: 1, name: 'South Australia' },
        { id: 6, pid: 1, name: 'Western Australia', isChecked: true },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'China', hasChild: true },
        { id: 12, pid: 11, name: 'Guangzhou' },
        { id: 13, pid: 11, name: 'Shanghai' },
        { id: 14, pid: 11, name: 'Beijing' },
        { id: 15, pid: 11, name: 'Shantou' },
        { id: 16, name: 'France', hasChild: true },
        { id: 17, pid: 16, name: 'Pays de la Loire' },
        { id: 18, pid: 16, name: 'Aquitaine' },
        { id: 19, pid: 16, name: 'Brittany' },
        { id: 20, pid: 16, name: 'Lorraine' },
        { id: 21, name: 'India', hasChild: true },
        { id: 22, pid: 21, name: 'Assam' },
        { id: 23, pid: 21, name: 'Bihar' },
        { id: 24, pid: 21, name: 'Tamil Nadu' },
        { id: 25, pid: 21, name: 'Punjab' }
    ];
    let field: Object = { dataSource: countries, id: 'id', parentID: 'pid',
    text: 'name', hasChildren: 'hasChild' };
    let isChecked: boolean = true;
    function nodeChecked(args: NodeCheckEventArgs) {
        alert("The checked node's id: " + checkedNodes); // To alert the checked node's id.
    }
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={field} showCheckBox={isChecked}
        nodeChecked={ nodeChecked } />
    );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

See Also

- [How to check/uncheck the checkbox on clicking the tree node text](#)
- [How to disable the checkboxes alone in the tree nodes](#)
- [How to remove the checkbox of the parent node in treeview](#)

Node editing in React Treeview component

The TreeView allows you to edit nodes by setting the [allowEditing](#) property to **true**.

To directly edit the nodes in place, **double click** the TreeView node or **select** the node and press **F2** key.

When editing is completed by focus out or by pressing the **Enter** key, the modified node's text saves automatically.

If you do not want to save the modified node's text in TreeView node, press **Escape** key. It does not save the edited text to the TreeView node.

- Node editing can also be performed programmatically by using the [beginEdit](#) method. On passing the node ID or element through this method, the edit textbox will be created for the particular node thus allowing us to edit it.
- If you need to validate or prevent editing, the [nodeEditing](#) event can be used which is triggered before the TreeView node is renamed. On successfully renaming a node the [nodeEdited](#) event will be triggered.

In the following example, the first level node's text cannot be changed, but all other level nodes' text can be changed.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let hierarchicalData = [
        { id: '01', name: 'Local Disk(C:)', expanded: true,
            subChild: [
                {
                    id: '01-01', name: 'Program Files',
                    subChild: [
                        { id: '01-01-01', name: '7-Zip' },
                        { id: '01-01-02', name: 'Git' },
                        { id: '01-01-03', name: 'IIS Express' },
                    ]
                },
                {
                    id: '01-02', name: 'Users', expanded: true,
                    subChild: [
                        { id: '01-02-01', name: 'Smith' },
                        { id: '01-02-02', name: 'Public' },
                        { id: '01-02-03', name: 'Admin' },
                    ]
                },
                {
                    id: '01-03', name: 'Windows',
                    subChild: [
                        { id: '01-03-01', name: 'Boot' },
                        { id: '01-03-02', name: 'FileManager' },
                        { id: '01-03-03', name: 'System32' },
                    ]
                }
            ]
        }
    ]
}
```

```

    ],
    },
  ],
},
{
  id: '02', name: 'Local Disk(D:)',
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ],
},
{
  id: '03', name: 'Local Disk(E:)', icon: 'folder',
  subChild: [
    {
      id: '03-01', name: 'Pictures',
      subChild: [
        { id: '03-01-01', name: 'Wind.jpg' },
        { id: '03-01-02', name: 'Stone.jpg' },
        { id: '03-01-03', name: 'Home.jpg' },
      ]
    },
    {
      id: '03-02', name: 'Documents',
      subChild: [
        { id: '03-02-01', name: 'Environment Pollution.docx' },
        { id: '03-02-02', name: 'Global Warming.ppt' },
        { id: '03-02-03', name: 'Social Network.pdf' },
      ]
    },
    {
      id: '03-03', name: 'Study Materials',
      subChild: [
        { id: '03-03-01', name: 'UI-Guide.pdf' },
      ]
    },
  ],
},

```

```

        { id: '03-03-02', name: 'Tutorials.zip' },
        { id: '03-03-03', name: 'TypeScript.7z' },
      ],
    },
  ],
}

];
let fields = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let allowEditing = true;
function editing(args) {
  //check whether node is root node or not
  if (args.node.parentNode.parentNode.nodeName !== "LI") {
    args.cancel = true;
  }
}
return (
  // specifies the tag for render the TreeView component
  <TreeViewComponent fields={fields} allowEditing={allowEditing}
nodeEditing={editing.bind(this)} />);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
import { NodeEditEventArgs } from '@syncfusion/ej2-navigations';
function App() {
  // define the JSON of data
  let hierarchicalData: { [key: string]: Object }[] = [
    { id: '01', name: 'Local Disk(C:)', expanded: true,
      subChild: [
        {
          id: '01-01', name: 'Program Files',
          subChild: [
            { id: '01-01-01', name: '7-Zip' },
            { id: '01-01-02', name: 'Git' },
            { id: '01-01-03', name: 'IIS Express' },
          ]
        },
      ],
    },
    {
      id: '01-02', name: 'Users', expanded: true,
      subChild: [
        { id: '01-02-01', name: 'Smith' },
        { id: '01-02-02', name: 'Public' },
        { id: '01-02-03', name: 'Admin' },
      ]
    },
    {
      id: '01-03', name: 'Windows',
      subChild: [

```

```

        { id: '01-03-01', name: 'Boot' },
        { id: '01-03-02', name: 'FileManager' },
        { id: '01-03-03', name: 'System32' },
      ]
    },
  ],
},
{
  id: '02', name: 'Local Disk(D:)',
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ],
},
{
  id: '03', name: 'Local Disk(E:)', icon: 'folder',
  subChild: [
    {
      id: '03-01', name: 'Pictures',
      subChild: [
        { id: '03-01-01', name: 'Wind.jpg' },
        { id: '03-01-02', name: 'Stone.jpg' },
        { id: '03-01-03', name: 'Home.jpg' },
      ]
    },
    {
      id: '03-02', name: 'Documents',
      subChild: [
        { id: '03-02-01', name: 'Environment Pollution.docx' },
        { id: '03-02-02', name: 'Global Warming.ppt' },
        { id: '03-02-03', name: 'Social Network.pdf' },
      ]
    },
    {
      id: '03-03', name: 'Study Materials',

```

```

        subChild: [
          { id: '03-03-01', name: 'UI-Guide.pdf' },
          { id: '03-03-02', name: 'Tutorials.zip' },
          { id: '03-03-03', name: 'TypeScript.7z' },
        ],
      },
    ],
  };
  let fields: Object = { dataSource: hierarchicalData, id: 'id', text:
'name', child: 'subChild' };
  let allowEditing: boolean = true;
  function editing(args: NodeEditEventArgs): void {
    //check whether node is root node or not
    if (args.node.parentNode.parentNode.nodeName !== "LI") {
      args.cancel = true;
    }
  }
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields} allowEditing={allowEditing}
nodeEditing={editing.bind(this)} />
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

See Also

- [How to validate the text when renaming the tree node](#)
- [How to process the tree node operations using context menu](#)

Multiple selection in React Treeview component

Selection provides an interactive support and highlights the node that you select. Selection can be done through simple mouse down or keyboard interaction.

The TreeView also supports selection of multiple nodes by setting [allowMultiSelection](#) to **true**.

To multi-select, press and hold **CTRL** key and click the desired nodes. To select range of nodes, press and hold the **SHIFT** key and click the nodes.

In the following example, the `allowMultiSelection` property is enabled.

Multi selection is not applicable through touch interactions.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
  // define the JSON of data
  let countries = [

```



```

    { id: 1, name: 'Australia', hasChild: true, expanded: true },
    { id: 2, pid: 1, name: 'New South Wales', isSelected: true },
    { id: 3, pid: 1, name: 'Victoria' },
    { id: 4, pid: 1, name: 'South Australia' },
    { id: 6, pid: 1, name: 'Western Australia', isSelected: true },
    { id: 7, name: 'Brazil', hasChild: true },
    { id: 8, pid: 7, name: 'Paraná' },
    { id: 9, pid: 7, name: 'Ceará' },
    { id: 10, pid: 7, name: 'Acre' },
    { id: 11, name: 'China', hasChild: true },
    { id: 12, pid: 11, name: 'Guangzhou' },
    { id: 13, pid: 11, name: 'Shanghai' },
    { id: 14, pid: 11, name: 'Beijing' },
    { id: 15, pid: 11, name: 'Shantou' },
    { id: 16, name: 'France', hasChild: true },
    { id: 17, pid: 16, name: 'Pays de la Loire' },
    { id: 18, pid: 16, name: 'Aquitaine' },
    { id: 19, pid: 16, name: 'Brittany' },
    { id: 20, pid: 16, name: 'Lorraine' },
    { id: 21, name: 'India', hasChild: true },
    { id: 22, pid: 21, name: 'Assam' },
    { id: 23, pid: 21, name: 'Bihar' },
    { id: 24, pid: 21, name: 'Tamil Nadu' },
    { id: 25, pid: 21, name: 'Punjab' }
  ];
  // maps the appropriate column to fields property
  let fields = { dataSource: countries, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild', selected: 'isSelected' };
  // set the Multi Selection option to TreeView
  let allowMultiSelection = true;
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields}
allowMultiSelection={allowMultiSelection}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
  // define the JSON of data
  let countries: { [key: string]: Object }[] = [
    { id: 1, name: 'Australia', hasChild: true, expanded: true },
    { id: 2, pid: 1, name: 'New South Wales', isSelected: true },
    { id: 3, pid: 1, name: 'Victoria' },
    { id: 4, pid: 1, name: 'South Australia' },
    { id: 6, pid: 1, name: 'Western Australia', isSelected: true },
    { id: 7, name: 'Brazil', hasChild: true },
    { id: 8, pid: 7, name: 'Paraná' },
    { id: 9, pid: 7, name: 'Ceará' },

```

```

    { id: 10, pid: 7, name: 'Acre' },
    { id: 11, name: 'China', hasChild: true },
    { id: 12, pid: 11, name: 'Guangzhou' },
    { id: 13, pid: 11, name: 'Shanghai' },
    { id: 14, pid: 11, name: 'Beijing' },
    { id: 15, pid: 11, name: 'Shantou' },
    { id: 16, name: 'France', hasChild: true },
    { id: 17, pid: 16, name: 'Pays de la Loire' },
    { id: 18, pid: 16, name: 'Aquitaine' },
    { id: 19, pid: 16, name: 'Brittany' },
    { id: 20, pid: 16, name: 'Lorraine' },
    { id: 21, name: 'India', hasChild: true },
    { id: 22, pid: 21, name: 'Assam' },
    { id: 23, pid: 21, name: 'Bihar' },
    { id: 24, pid: 21, name: 'Tamil Nadu' },
    { id: 25, pid: 21, name: 'Punjab' }
  ];
  // maps the appropriate column to fields property
  let fields: Object = { dataSource: countries, id: 'id', parentID: 'pid',
text: 'name', hasChildren: 'hasChild', selected: 'isSelected' };
  // set the Multi Selection option to TreeView
  let allowMultiSelection: boolean = true;
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields} allowMultiSelection={
allowMultiSelection }/>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Selected nodes

You can get or set the selected nodes in TreeView at initial rendering and dynamically by using the [selectedNodes](#) property. It will return the selected node's ID as an array.

- The [nodeselecting](#) event is triggered before a node is selected/unselected which can be used to prevent the selection.
- The [nodeSelected](#) event is triggered once a node is successfully selected/unselected.

In the following example, **New South Wales** and **Western Australia** nodes are selected at initial rendering. When a node is selected, the selected node's ID is displayed in alert.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
  // define the JSON of data
  let countries = [
    { id: 1, name: 'Australia', hasChild: true, expanded: true },
    { id: 2, pid: 1, name: 'New South Wales', isSelected: true },
    { id: 3, pid: 1, name: 'Victoria' },
    { id: 4, pid: 1, name: 'South Australia' },
    { id: 6, pid: 1, name: 'Western Australia', isSelected: true },
  ];

```

```

    { id: 7, name: 'Brazil', hasChild: true },
    { id: 8, pid: 7, name: 'Paraná' },
    { id: 9, pid: 7, name: 'Ceará' },
    { id: 10, pid: 7, name: 'Acre' },
    { id: 11, name: 'China', hasChild: true },
    { id: 12, pid: 11, name: 'Guangzhou' },
    { id: 13, pid: 11, name: 'Shanghai' },
    { id: 14, pid: 11, name: 'Beijing' },
    { id: 15, pid: 11, name: 'Shantou' },
    { id: 16, name: 'France', hasChild: true },
    { id: 17, pid: 16, name: 'Pays de la Loire' },
    { id: 18, pid: 16, name: 'Aquitaine' },
    { id: 19, pid: 16, name: 'Brittany' },
    { id: 20, pid: 16, name: 'Lorraine' },
    { id: 21, name: 'India', hasChild: true },
    { id: 22, pid: 21, name: 'Assam' },
    { id: 23, pid: 21, name: 'Bihar' },
    { id: 24, pid: 21, name: 'Tamil Nadu' },
    { id: 25, pid: 21, name: 'Punjab' }
  ];
  // maps the appropriate column to fields property
  let fields = { dataSource: countries, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild', selected: 'isSelected' };
  // set the Multi Selection option to TreeView
  let allowMultiSelection = true;
  let selectedNodes = ['2', '6'];
  function nodeSelected(e) {
    alert("The selected node's id: " + selectedNodes); // To alert the
selected node's id.
  }
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields}
allowMultiSelection={allowMultiSelection} selectedNodes={selectedNodes}
nodeSelected={nodeSelected}/>;
  )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {TreeViewComponent, NodeSelectEventArgs} from '@syncfusion/ej2-react-
navigations';
function App() {
  // define the JSON of data
  let countries: { [key: string]: Object }[] = [
    { id: 1, name: 'Australia', hasChild: true, expanded: true },
    { id: 2, pid: 1, name: 'New South Wales', isSelected: true },
    { id: 3, pid: 1, name: 'Victoria' },
    { id: 4, pid: 1, name: 'South Australia' },
    { id: 6, pid: 1, name: 'Western Australia', isSelected: true },
    { id: 7, name: 'Brazil', hasChild: true },
    { id: 8, pid: 7, name: 'Paraná' },
    { id: 9, pid: 7, name: 'Ceará' },

```

```

    { id: 10, pid: 7, name: 'Acre' },
    { id: 11, name: 'China', hasChild: true },
    { id: 12, pid: 11, name: 'Guangzhou' },
    { id: 13, pid: 11, name: 'Shanghai' },
    { id: 14, pid: 11, name: 'Beijing' },
    { id: 15, pid: 11, name: 'Shantou' },
    { id: 16, name: 'France', hasChild: true },
    { id: 17, pid: 16, name: 'Pays de la Loire' },
    { id: 18, pid: 16, name: 'Aquitaine' },
    { id: 19, pid: 16, name: 'Brittany' },
    { id: 20, pid: 16, name: 'Lorraine' },
    { id: 21, name: 'India', hasChild: true },
    { id: 22, pid: 21, name: 'Assam' },
    { id: 23, pid: 21, name: 'Bihar' },
    { id: 24, pid: 21, name: 'Tamil Nadu' },
    { id: 25, pid: 21, name: 'Punjab' }
  ];
  // maps the appropriate column to fields property
  let fields: Object = { dataSource: countries, id: 'id', parentID: 'pid',
text: 'name', hasChildren: 'hasChild', selected: 'isSelected' };
  // set the Multi Selection option to TreeView
  let allowMultiSelection: boolean = true;
  let selectedNodes: string[] = ['2', '6'];
  function nodeSelected(e: NodeSelectEventArgs) {
    alert("The selected node's id: " + selectedNodes); // To alert the
selected node's id.
  }
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields} allowMultiSelection={
allowMultiSelection } selectedNodes={ selectedNodes }
nodeSelected={nodeSelected}/>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

See Also

- [How to hover and select the multiple line tree nodes](#)
- [How to select only one child at a time, out of one specific parent](#)

Drag and drop in React Treeview component

The TreeView component allows you to drag and drop any node by setting [allowDragAndDrop](#) to **true**. Nodes can be dragged and dropped at all levels of the same TreeView.

The dragged nodes can be dropped at any level by indicator lines with **plus**, **minus/restrict**, and **in between** icons. It represents the exact position where the node is to be dropped as sibling or child.

The following table explains the usage of indicator icons.

Icons	Description
----- -----	

- | Plus icon | Indicates that the dragged node is to be added as child of target node. |
- | Minus or restrict icon | Indicates that the dragged node is not to be dropped at the hovered region. |
- | In between icon | Indicates that the dragged node is to be added as siblings of hovered region. |

- If you need to prevent dragging action for a particular node, the [nodeDragStart](#) event can be used which is triggered when the node drag is started. If you need to prevent dropping action for a particular node, the [nodeDragStop](#) event can be used which is triggered when the drag is stopped.
- The [nodeDragging](#) event is triggered when the TreeView node is being dragged. You can customize the cloned element in this event.
- The [nodeDropped](#) event is triggered when the TreeView node is dropped on the target element successfully.

In the following sample, the [allowDragAndDrop](#) property is enabled.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let productTeam = [
        {
            id: 1, name: 'ASP.NET MVC Team', expanded: true,
            child: [
                { id: 2, pid: 1, name: 'Smith' },
                { id: 3, pid: 1, name: 'Johnson', isSelected: true },
                { id: 4, pid: 1, name: 'Anderson' },
            ]
        },
        {
            id: 5, name: 'Windows Team',
            child: [
                { id: 6, pid: 5, name: 'Clark' },
                { id: 7, pid: 5, name: 'Wright' },
                { id: 8, pid: 5, name: 'Lopez' },
            ]
        },
        {
            id: 9, name: 'Web Team',
            child: [
                { id: 11, pid: 9, name: 'Joshua' },
                { id: 12, pid: 9, name: 'Matthew' },
                { id: 13, pid: 9, name: 'David' },
            ]
        },
        {
            id: 14, name: 'Build Team',
            child: [
                { id: 15, pid: 14, name: 'Ryan' },
                { id: 16, pid: 14, name: 'Justin' },
            ]
        }
    ]
}
```

```

        { id: 17, pid: 14, name: 'Robert' },
      ],
    },
    {
      id: 18, name: 'WPF Team',
      child: [
        { id: 19, pid: 18, name: 'Brown' },
        { id: 20, pid: 18, name: 'Johnson' },
        { id: 21, pid: 18, name: 'Miller' },
      ]
    }
  ];
  // maps the appropriate column to fields property
  let fields = { dataSource: productTeam, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild', selected: 'isSelected' };
  let allowDragAndDrop = true;
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields}
allowDragAndDrop={allowDragAndDrop}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
  // define the JSON of data
  let productTeam: { [key: string]: Object }[] = [
    {
      id: 1, name: 'ASP.NET MVC Team', expanded: true,
      child: [
        { id: 2, pid: 1, name: 'Smith' },
        { id: 3, pid: 1, name: 'Johnson', isSelected: true },
        { id: 4, pid: 1, name: 'Anderson' },
      ]
    },
    {
      id: 5, name: 'Windows Team',
      child: [
        { id: 6, pid: 5, name: 'Clark' },
        { id: 7, pid: 5, name: 'Wright' },
        { id: 8, pid: 5, name: 'Lopez' },
      ]
    },
    {
      id: 9, name: 'Web Team',
      child: [
        { id: 11, pid: 9, name: 'Joshua' },
        { id: 12, pid: 9, name: 'Matthew' },
        { id: 13, pid: 9, name: 'David' },
      ]
    }
  ];
}

```

```

    ],
    {
      id: 14, name: 'Build Team',
      child: [
        { id: 15, pid: 14, name: 'Ryan' },
        { id: 16, pid: 14, name: 'Justin' },
        { id: 17, pid: 14, name: 'Robert' },
      ]
    },
    {
      id: 18, name: 'WPF Team',
      child: [
        { id: 19, pid: 18, name: 'Brown' },
        { id: 20, pid: 18, name: 'Johnson' },
        { id: 21, pid: 18, name: 'Miller' },
      ]
    }
  ];
  // maps the appropriate column to fields property
  let fields: Object = { dataSource: productTeam, id: 'id', parentID:
'pid', text: 'name', hasChildren: 'hasChild', selected: 'isSelected' };
  let allowDragAndDrop : boolean = true;
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields} allowDragAndDrop={
allowDragAndDrop }/>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Multiple-node drag and drop

To drag and drop more than one node, you should enable the [allowMultiSelection](#) property along with the [allowDragAndDrop](#) property.

To perform multi-selection, press and hold **CTRL** key and click the desired nodes. To select range of nodes, press and hold the **SHIFT** key and click the nodes.

In the following sample, the [allowMultiSelection](#) property is enabled along with the [allowDragAndDrop](#) property.

INDEX.JSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
  // define the JSON of data
  let productTeam = [
    {
      id: 1, name: 'ASP.NET MVC Team', expanded: true,
      child: [
        { id: 2, pid: 1, name: 'Smith', isSelected: true },

```



```

        { id: 3, pid: 1, name: 'Johnson', isSelected: true },
        { id: 4, pid: 1, name: 'Anderson' },
      ]
    },
    {
      id: 5, name: 'Windows Team',
      child: [
        { id: 6, pid: 5, name: 'Clark' },
        { id: 7, pid: 5, name: 'Wright' },
        { id: 8, pid: 5, name: 'Lopez' },
      ]
    },
    {
      id: 9, name: 'Web Team',
      child: [
        { id: 11, pid: 9, name: 'Joshua' },
        { id: 12, pid: 9, name: 'Matthew' },
        { id: 13, pid: 9, name: 'David' },
      ]
    },
    {
      id: 14, name: 'Build Team',
      child: [
        { id: 15, pid: 14, name: 'Ryan' },
        { id: 16, pid: 14, name: 'Justin' },
        { id: 17, pid: 14, name: 'Robert' },
      ]
    },
    {
      id: 18, name: 'WPF Team',
      child: [
        { id: 19, pid: 18, name: 'Brown' },
        { id: 20, pid: 18, name: 'Johnson' },
        { id: 21, pid: 18, name: 'Miller' },
      ]
    }
  ];
  // maps the appropriate column to fields property
  let fields = { dataSource: productTeam, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild', selected: 'isSelected' };
  let allowDragAndDrop = true;
  let allowMultiSelection = true;
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields}
    allowMultiSelection={allowMultiSelection}
    allowDragAndDrop={allowDragAndDrop}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';

```

```

enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
    // define the JSON of data
    let productTeam: { [key: string]: Object }[] = [
        {
            id: 1, name: 'ASP.NET MVC Team', expanded: true,
            child: [
                { id: 2, pid: 1, name: 'Smith', isSelected: true },
                { id: 3, pid: 1, name: 'Johnson', isSelected: true },
                { id: 4, pid: 1, name: 'Anderson' },
            ]
        },
        {
            id: 5, name: 'Windows Team',
            child: [
                { id: 6, pid: 5, name: 'Clark' },
                { id: 7, pid: 5, name: 'Wright' },
                { id: 8, pid: 5, name: 'Lopez' },
            ]
        },
        {
            id: 9, name: 'Web Team',
            child: [
                { id: 11, pid: 9, name: 'Joshua' },
                { id: 12, pid: 9, name: 'Matthew' },
                { id: 13, pid: 9, name: 'David' },
            ]
        },
        {
            id: 14, name: 'Build Team',
            child: [
                { id: 15, pid: 14, name: 'Ryan' },
                { id: 16, pid: 14, name: 'Justin' },
                { id: 17, pid: 14, name: 'Robert' },
            ]
        },
        {
            id: 18, name: 'WPF Team',
            child: [
                { id: 19, pid: 18, name: 'Brown' },
                { id: 20, pid: 18, name: 'Johnson' },
                { id: 21, pid: 18, name: 'Miller' },
            ]
        }
    ];
    // maps the appropriate column to fields property
    let fields: Object = { dataSource: productTeam, id: 'id', parentID:
'pid', text: 'name', hasChildren: 'hasChild', selected: 'isSelected' };
    let allowDragAndDrop : boolean = true;
    let allowMultiSelection : boolean = true;
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={fields} allowMultiSelection={
allowMultiSelection } allowDragAndDrop={ allowDragAndDrop } />
    );
}

```

```
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

You can also explore our [React Tree View Drag and Drop example](#) that shows how to render the Drag and Drop feature in React TreeView.

See Also

- [How to restrict the drag-and-drop for particular tree nodes](#)

Template in React Treeview component

The TreeView component allows you to customize the look of TreeView nodes by using the [nodeTemplate](#) property. This property accepts either `template string` or HTML element ID.

In the following sample, employee information such as employee photo, name, and designation have been included using the `nodeTemplate` property.

The template expression should be provided inside the `${...}` interpolation syntax.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    let employees = [
        { id: 1, name: 'Steven Buchanan', eimg: '10', job: 'CEO', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Laura Callahan', eimg: '2', job: 'Product Manager', hasChild: true },
        { id: 3, pid: 2, name: 'Andrew Fuller', eimg: '7', job: 'Team Lead', hasChild: true },
        { id: 4, pid: 3, name: 'Anne Dodsworth', eimg: '1', job: 'Developer' },
    ],
    { id: 5, pid: 1, name: 'Nancy Davolio', eimg: '4', job: 'Product Manager', hasChild: true },
    { id: 6, pid: 5, name: 'Michael Suyama', eimg: '9', job: 'Team Lead', hasChild: true },
    { id: 7, pid: 6, name: 'Robert King', eimg: '8', job: 'Developer' },
    { id: 8, pid: 7, name: 'Margaret Peacock', eimg: '6', job: 'Developer' },
    { id: 9, pid: 1, name: 'Janet Leverling', eimg: '3', job: 'HR' },
    ];
    let fields = { dataSource: employees, id: 'id', parentID: 'pid', text: 'name', hasChildren: 'hasChild' };
    let cssClass = "custom";
    function nodeTemplate(data) {
        return (<div>
            <img
                className="eimage"
                src={`https://ej2.syncfusion.com/demos/src/treeview/images/employees/${data.eimg}.png`}
            />
        </div>);
    }
    <TreeViewComponent
        fields={fields}
        cssClass={cssClass}
        nodeTemplate={nodeTemplate}
    />
```

```

        alt="${data.eimg}"
      />
      <div className='ename'>{data.name}</div>
      <div className='ejob'>{data.job}</div>
    </div>);
  }
  return (
    // specifies the tag for render the TreeView component
    <TreeViewComponent fields={fields} cssClass={cssClass}
    nodeTemplate={nodeTemplate}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
  let employees: { [key: string]: Object }[] = [
    { id: 1, name: 'Steven Buchanan', eimg: '10', job: 'CEO', hasChild: true,
    expanded: true },
    { id: 2, pid: 1, name: 'Laura Callahan', eimg: '2', job: 'Product
Manager', hasChild: true },
    { id: 3, pid: 2, name: 'Andrew Fuller', eimg: '7', job: 'Team Lead',
hasChild: true },
    { id: 4, pid: 3, name: 'Anne Dodsworth', eimg: '1', job: 'Developer'
},
    { id: 5, pid: 1, name: 'Nancy Davolio', eimg: '4', job: 'Product
Manager', hasChild: true },
    { id: 6, pid: 5, name: 'Michael Suyama', eimg: '9', job: 'Team Lead',
hasChild: true },
    { id: 7, pid: 6, name: 'Robert King', eimg: '8', job: 'Developer ' },
    { id: 8, pid: 7, name: 'Margaret Peacock', eimg: '6', job:
'Developer' },
    { id: 9, pid: 1, name: 'Janet Leverling', eimg: '3', job: 'HR' },
  ];
  let fields: Object = { dataSource: employees, id: 'id', parentID: 'pid',
text: 'name', hasChildren: 'hasChild' };
  let cssClass:string = "custom";
  function nodeTemplate(data:any): JSX.Element {
    return (
      <div>
        <img className='eimage'
src={`https://ej2.syncfusion.com/demos/src/treeview/images/employees/${data.e
img}.png`} alt='${data.eimg}'/>
        <div className='ename'>{data.name}</div>
        <div className='ejob'>{data.job}</div>
      </div>
    )
  }
  return (
    // specifies the tag for render the TreeView component

```

```

    <TreeViewComponent fields={fields} cssClass={cssClass}
    nodeTemplate={nodeTemplate}/>
  );
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

See Also

- [How to customize the expand and collapse icons](#)
- [How to customize the tree nodes based on levels](#)

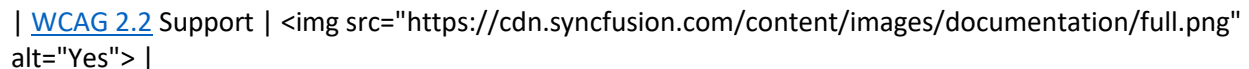
Accessibility in React TreeView component

The TreeView component followed the accessibility guidelines and standards, including [ADA](#), [Section 508](#), [WCAG 2.2](#) standards, and [WCAG roles](#) that are commonly used to evaluate accessibility.

The accessibility compliance for the TreeView component is outlined below.

| Accessibility Criteria | Compatibility |

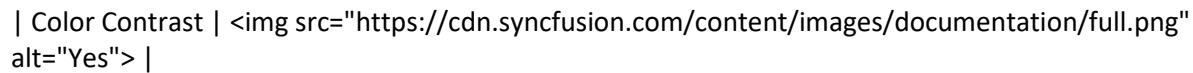
| -- | -- |

| [WCAG 2.2](#) Support |  alt="Yes"> |

| [Section 508](#) Support |  alt="Yes"> |

| Screen Reader Support |  alt="Yes"> |

| Right-To-Left Support |  alt="Yes"> |

| Color Contrast |  alt="Yes"> |

| Mobile Device Support |  alt="Yes"> |

| Keyboard Navigation Support |  alt="Yes"> |

| [Accessibility Checker](#) Validation |  alt="Yes"> |

| [Axe-core](#) Accessibility Validation |  alt="Yes"> |

<style>

.post .post-content img {

display: inline-block;

margin: 0.5em 0;

```
}  
</style>  
  
<div> - All  
features of the component meet the requirement.</div>  
  
<div> - Some features of the component do not meet the requirement.</div>  
  
<div> - The component does not meet the requirement.</div>
```

WAI-ARIA attributes

The TreeView component followed the [WAI-ARIA](#) patterns to meet the accessibility. The following ARIA attributes are used in the TreeView component:

Attributes	Purpose
---	---
<code>role=tree</code>	All tree nodes are contained within the element.
<code>role=treeitem</code>	Specifies the role of each tree node in a selectable TreeView and its containment within the tree.
<code>role=group</code>	Specifies the role of each parent node container.
<code>role=checkbox</code>	Indicates checkbox control along with treeitem element.
<code>aria-multiselectable</code>	Indicates whether the TreeView enables multiple selection or not.
<code>aria-expanded</code>	Indicates whether the parent node has expanded or not.
<code>aria-selected</code>	Indicates the selected node.
<code>aria-grabbed</code>	Indicates the selected state on drag-and-drop of node.
<code>aria-level</code>	Indicates the level of node in TreeView.
<code>aria-checked</code>	Indicates the current checked state of TreeView checkbox.
<code>aria-label</code>	Indicates the contextual message for the TreeView checkbox.
<code>aria-activedescendant</code>	Identifies the currently active element when focusing on the TreeView.
<code>aria-disabled</code>	Indicates element is perceivable but disabled.

Keyboard interaction

The TreeView component followed the [keyboard interaction](#) guideline, making it easy for people who use assistive technologies (AT) and those who completely rely on keyboard navigation. The following keyboard shortcuts are supported by the TreeView component.

Interaction Keys	Description
----- -----	
Arrow Up	Goes to the previous node.
Arrow Down	Goes to the next node.

- | Arrow Right | Expands the current node. |
- | Arrow Left | Collapses the current node. |
- | Home | Goes to the first node. |
- | End | Goes to the last node. |
- | F2 | Edits the focused node. |
- | Esc | Focuses out the edit state without saving the edited text. |
- | Enter | Selects the focused node/saves the edited text. |
- | Space | Checks the current node. |
- | Ctrl + A | Selects all nodes. |

Ensuring accessibility

The TreeView component's accessibility levels are ensured through an [accessibility-checker](#) and [axe-core](#) software tools during automated testing.

The accessibility compliance of the TreeView component is shown in the following sample. Open the [sample](#) in a new window to evaluate the accessibility of the TreeView component with accessibility tools.

See also

- [Accessibility in Syncfusion React components](#)

How To

Customize the expand and collapse icons in React Treeview component

You can customize TreeView expand and collapse icons by using the `cssClass` property of TreeView. Refer to the sample to customize expand/collapse icons.

INDEX.JSX

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // define the array of data
    let hierarchicalData = [
        { id: '01', name: 'Local Disk (C:)', expanded: true,
            subChild: [
                {
                    id: '01-01', name: 'Program Files',
                    subChild: [
                        { id: '01-01-01', name: '7-Zip' },
                        { id: '01-01-02', name: 'Git' },
                        { id: '01-01-03', name: 'IIS Express' },
                    ]
                }
            ]
        },
    ],
    {
```



```

        id: '01-02', name: 'Users', expanded: true,
        subChild: [
            { id: '01-02-01', name: 'Smith' },
            { id: '01-02-02', name: 'Public' },
            { id: '01-02-03', name: 'Admin' },
        ]
    },
    {
        id: '01-03', name: 'Windows',
        subChild: [
            { id: '01-03-01', name: 'Boot' },
            { id: '01-03-02', name: 'FileManager' },
            { id: '01-03-03', name: 'System32' },
        ]
    },
]
},
{
    id: '02', name: 'Local Disk (D:)',
    subChild: [
        {
            id: '02-01', name: 'Personals',
            subChild: [
                { id: '02-01-01', name: 'My photo.png' },
                { id: '02-01-02', name: 'Rental document.docx' },
                { id: '02-01-03', name: 'Pay slip.pdf' },
            ]
        },
        {
            id: '02-02', name: 'Projects',
            subChild: [
                { id: '02-02-01', name: 'ASP Application' },
                { id: '02-02-02', name: 'TypeScript Application' },
                { id: '02-02-03', name: 'React Application' },
            ]
        },
        {
            id: '02-03', name: 'Office',
            subChild: [
                { id: '02-03-01', name: 'Work details.docx' },
                { id: '02-03-02', name: 'Weekly report.docx' },
                { id: '02-03-03', name: 'Wish list.csv' },
            ]
        },
    ]
},
{
    id: '03', name: 'Local Disk (E:)', icon: 'folder',
    subChild: [
        {
            id: '03-01', name: 'Pictures',
            subChild: [
                { id: '03-01-01', name: 'Wind.jpg' },
                { id: '03-01-02', name: 'Stone.jpg' },
                { id: '03-01-03', name: 'Home.jpg' },
            ]
        },
    ]
},

```

```

        {
            id: '03-02', name: 'Documents',
            subChild: [
                { id: '03-02-01', name: 'Environment Pollution.docx' },
                { id: '03-02-02', name: 'Global Warming.ppt' },
                { id: '03-02-03', name: 'Social Network.pdf' },
            ]
        },
        {
            id: '03-03', name: 'Study Materials',
            subChild: [
                { id: '03-03-01', name: 'UI-Guide.pdf' },
                { id: '03-03-02', name: 'Tutorials.zip' },
                { id: '03-03-03', name: 'TypeScript.7z' },
            ]
        }
    ];
    let fields = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
    let style = 'custom';
    return (
        // specifies the tag for render the TreeView component
        <TreeViewComponent fields={fields} cssClass={style}/>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
function App() {
    // define the array of data
    let hierarchicalData: { [key: string]: Object }[] = [
        { id: '01', name: 'Local Disk (C:)', expanded: true,
            subChild: [
                {
                    id: '01-01', name: 'Program Files',
                    subChild: [
                        { id: '01-01-01', name: '7-Zip' },
                        { id: '01-01-02', name: 'Git' },
                        { id: '01-01-03', name: 'IIS Express' },
                    ]
                },
            ],
        },
        {
            id: '01-02', name: 'Users', expanded: true,
            subChild: [
                { id: '01-02-01', name: 'Smith' },
                { id: '01-02-02', name: 'Public' },
                { id: '01-02-03', name: 'Admin' },
            ],
        },
    ],
}

```

```

    ],
    {
      id: '01-03', name: 'Windows',
      subChild: [
        { id: '01-03-01', name: 'Boot' },
        { id: '01-03-02', name: 'FileManager' },
        { id: '01-03-03', name: 'System32' },
      ]
    },
  ],
},
{
  id: '02', name: 'Local Disk (D:)',
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ],
},
{
  id: '03', name: 'Local Disk (E:)', icon: 'folder',
  subChild: [
    {
      id: '03-01', name: 'Pictures',
      subChild: [
        { id: '03-01-01', name: 'Wind.jpg' },
        { id: '03-01-02', name: 'Stone.jpg' },
        { id: '03-01-03', name: 'Home.jpg' },
      ]
    },
    {
      id: '03-02', name: 'Documents',
      subChild: [
        { id: '03-02-01', name: 'Environment Pollution.docx' },
        { id: '03-02-02', name: 'Global Warming.ppt' },
      ]
    }
  ],
}

```

```

        { id: '03-02-03', name: 'Social Network.pdf' },
      ],
    },
    {
      id: '03-03', name: 'Study Materials',
      subChild: [
        { id: '03-03-01', name: 'UI-Guide.pdf' },
        { id: '03-03-02', name: 'Tutorials.zip' },
        { id: '03-03-03', name: 'TypeScript.7z' },
      ]
    },
  ],
}
];
let fields: object = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let style: string = 'custom';
return (
  // specifies the tag for render the TreeView component
  <TreeViewComponent fields={fields} cssClass={style} />
);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Process the tree node operations using context menu in React Treeview component

You can integrate the context menu with 'TreeView' component in order to perform the TreeView related operations like add, remove and renaming the node.

The following sample demonstrates the above cases which are used to manipulate TreeView operations in the 'select' event of context menu.

INDEX.JSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
import { TreeViewComponent, ContextMenuComponent } from '@syncfusion/ej2-react-navigations';
function App() {
  let menuObj;
  let treeObj;
  let hierarchicalData = [
    { id: '01', name: 'Local Disk (C:)', expanded: true, hasAttribute: {
class: 'remove rename' },
      subChild: [
        {
          id: '01-01', name: 'Program Files',
          subChild: [
            { id: '01-01-01', name: 'Windows NT' },
            { id: '01-01-02', name: 'Windows Mail' },
            { id: '01-01-03', name: 'Windows Photo Viewer' },
          ]
        },
      ],
    },
  ],
}

```

```

        {
            id: '01-02', name: 'Users', expanded: true,
            subChild: [
                { id: '01-02-01', name: 'Smith' },
                { id: '01-02-02', name: 'Public' },
                { id: '01-02-03', name: 'Admin' },
            ]
        },
        {
            id: '01-03', name: 'Windows',
            subChild: [
                { id: '01-03-01', name: 'Boot' },
                { id: '01-03-02', name: 'FileManager' },
                { id: '01-03-03', name: 'System32' },
            ]
        },
    ],
    {
        id: '02', name: 'Local Disk (D:)', hasAttribute: { class:
'rename' },
        subChild: [
            {
                id: '02-01', name: 'Personals',
                subChild: [
                    { id: '02-01-01', name: 'My photo.png' },
                    { id: '02-01-02', name: 'Rental document.docx' },
                    { id: '02-01-03', name: 'Pay slip.pdf' },
                ]
            },
            {
                id: '02-02', name: 'Projects',
                subChild: [
                    { id: '02-02-01', name: 'ASP Application' },
                    { id: '02-02-02', name: 'TypeScript Application' },
                    { id: '02-02-03', name: 'React Application' },
                ]
            },
            {
                id: '02-03', name: 'Office',
                subChild: [
                    { id: '02-03-01', name: 'Work details.docx' },
                    { id: '02-03-02', name: 'Weekly report.docx' },
                    { id: '02-03-03', name: 'Wish list.csv' },
                ]
            },
        ],
    },
    {
        id: '03', name: 'Local Disk (E:)', icon: 'folder', hasAttribute:
{ class: 'remove' },
        subChild: [
            {
                id: '03-01', name: 'Pictures',
                subChild: [
                    { id: '03-01-01', name: 'Wind.jpg' },
                    { id: '03-01-02', name: 'Stone.jpg' },
                ]
            },
        ],
    },
],

```

```

        { id: '03-01-03', name: 'Home.jpg' },
      ],
    },
    {
      id: '03-02', name: 'Documents',
      subChild: [
        { id: '03-02-01', name: 'Environment Pollution.docx' },
        { id: '03-02-02', name: 'Global Warming.ppt' },
        { id: '03-02-03', name: 'Social Network.pdf' },
      ]
    },
    {
      id: '03-03', name: 'Study Materials',
      subChild: [
        { id: '03-03-01', name: 'UI-Guide.pdf' },
        { id: '03-03-02', name: 'Tutorials.zip' },
        { id: '03-03-03', name: 'TypeScript.7z' },
      ]
    }
  ],
};

// Mapping TreeView fields property with data source properties
let fields = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild', htmlAttributes: 'hasAttribute' };
function nodeclicked(args) {
  if (args.event.which === 3) {
    treeObj.selectedNodes = [args.node.getAttribute('data-uid')];
  }
}

//Render the context menu with target as Treeview
let menuItems = [
  { text: 'Add New Item' },
  { text: 'Rename Item' },
  { text: 'Remove Item' }
];
let index = 1;
function menuclick(args) {
  let targetNodeId = treeObj.selectedNodes[0];
  if (args.item.text == "Add New Item") {
    let nodeId = "tree_" + index;
    let item = { id: nodeId, name: "New Folder" };
    treeObj.addNodes([item], targetNodeId, null);
    index++;
    hierarchicalData.push(item);
    treeObj.beginEdit(nodeId);
  }
  else if (args.item.text == "Remove Item") {
    treeObj.removeNodes([targetNodeId]);
  }
  else if (args.item.text == "Rename Item") {
    treeObj.beginEdit(targetNodeId);
  }
}
function beforeopen(args) {
  let targetNodeId = treeObj.selectedNodes[0];

```

```

    let targetNode = document.querySelector('[data-uid="' + targetNodeId
+ '"]');
    if (targetNode.classList.contains('remove')) {
        menuObj.enableItems(['Remove Item'], false);
    }
    else {
        menuObj.enableItems(['Remove Item'], true);
    }
    if (targetNode.classList.contains('rename')) {
        menuObj.enableItems(['Rename Item'], false);
    }
    else {
        menuObj.enableItems(['Rename Item'], true);
    }
}
return (<div className='control-pane'>
    <div className='control-section'>
    <div className='control_wrapper'>
    <div id='tree'> { /* Render TreeView */}
        <TreeViewComponent fields={fields} ref={(treeview) => { treeObj =
treeview; }} nodeClicked={nodeClicked.bind(this)} />
        <ContextMenuComponent id="contentmenutree" target='#tree'
items={menuItems} beforeOpen={beforeopen.bind(this)}
select={menuclick.bind(this)} ref={(contextmenu) => { menuObj = contextmenu;
}} />
        </div>
    </div>
    </div>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
import {TreeViewComponent, NodeClickEventArgs,
ContextMenuComponent, MenuItemModel, MenuEventArgs,
BeforeOpenCloseMenuEventArgs} from '@syncfusion/ej2-react-navigations';
function App() {
    let menuObj: ContextMenuComponent;
    let treeObj: TreeViewComponent;
    let hierarchicalData: Object[] = [
        { id: '01', name: 'Local Disk (C:)', expanded: true,
hasAttribute:{class:'remove rename'},
        subChild: [
            {
                id: '01-01', name: 'Program Files',
                subChild: [
                    { id: '01-01-01', name: 'Windows NT' },
                    { id: '01-01-02', name: 'Windows Mail' },

```



```

        { id: '01-01-03', name: 'Windows Photo Viewer' },
      ],
    },
    {
      id: '01-02', name: 'Users', expanded: true,
      subChild: [
        { id: '01-02-01', name: 'Smith' },
        { id: '01-02-02', name: 'Public' },
        { id: '01-02-03', name: 'Admin' },
      ]
    },
    {
      id: '01-03', name: 'Windows',
      subChild: [
        { id: '01-03-01', name: 'Boot' },
        { id: '01-03-02', name: 'FileManager' },
        { id: '01-03-03', name: 'System32' },
      ]
    },
  ],
},
{
  id: '02', name: 'Local Disk (D:)', hasAttribute:{class:'rename'},
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ],
},
{
  id: '03', name: 'Local Disk (E:)', icon: 'folder',
  hasAttribute:{class:'remove'},
  subChild: [
    {
      id: '03-01', name: 'Pictures',
      subChild: [

```

```

        { id: '03-01-01', name: 'Wind.jpg' },
        { id: '03-01-02', name: 'Stone.jpg' },
        { id: '03-01-03', name: 'Home.jpg' },
    ],
    },
    {
        id: '03-02', name: 'Documents',
        subChild: [
            { id: '03-02-01', name: 'Environment Pollution.docx' },

            { id: '03-02-02', name: 'Global Warming.ppt' },
            { id: '03-02-03', name: 'Social Network.pdf' },
        ]
    },
    {
        id: '03-03', name: 'Study Materials',
        subChild: [
            { id: '03-03-01', name: 'UI-Guide.pdf' },
            { id: '03-03-02', name: 'Tutorials.zip' },
            { id: '03-03-03', name: 'TypeScript.7z' },
        ]
    },
]

];
// Mapping TreeView fields property with data source properties
let fields: object = { dataSource: hierarchicalData, id: 'id', text:
'name', child: 'subChild', htmlAttributes: 'hasAttribute' };
function nodeclicked(args: NodeClickEventArgs) {
    if (args.event.which === 3) {
        treeObj.selectedNodes = [args.node.getAttribute('data-uid')];
    }
}
//Render the context menu with target as Treeview
let menuItems: MenuItemModel[] = [
    { text: 'Add New Item' },
    { text: 'Rename Item' },
    { text: 'Remove Item' }
];
let index: number = 1;
function menuclick(args: MenuEventArgs) {
    let targetNodeId: string = treeObj.selectedNodes[0];
    if (args.item.text == "Add New Item") {
        let nodeId: string = "tree_" + index;
        let item: { [key: string]: Object } = { id: nodeId, name: "New Folder" };
        treeObj.addNodes([item], targetNodeId, null);
        index++;
        hierarchicalData.push(item);
        treeObj.beginEdit(nodeId);
    }
    else if (args.item.text == "Remove Item") {
        treeObj.removeNodes([targetNodeId]);
    }
    else if (args.item.text == "Rename Item") {
        treeObj.beginEdit(targetNodeId);
    }
}
}

```

```
function beforeopen(args: BeforeOpenCloseMenuEventArgs) {
    let targetNodeId: string = treeObj.selectedNodes[0];
    let targetNode: Element = document.querySelector('[data-uid="' +
targetNodeId + '"]');
    if (targetNode.classList.contains('remove')) {
        menuObj.enableItems(['Remove Item'], false);
    }
    else {
        menuObj.enableItems(['Remove Item'], true);
    }
    if (targetNode.classList.contains('rename')) {
        menuObj.enableItems(['Rename Item'], false);
    }
    else {
        menuObj.enableItems(['Rename Item'], true);
    }
}

return (
    <div className = 'control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                <div id = 'tree'> { /* Render TreeView */}
                    <TreeViewComponent fields={fields} ref={ (treeview) => { treeObj =
treeview as TreeViewComponent; }} nodeClicked={nodeClicked.bind(this)} />
                    <ContextMenuComponent id="contentmenutree" target='#tree'
items={menuItems} beforeOpen={beforeopen.bind(this)}
select={menuclick.bind(this)} ref={ (contextmenu) => { menuObj = contextmenu
as ContextMenuComponent; }} />
                </div>
            </div>
        </div>
    </div>
)
}

export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}
```

Check uncheck the checkbox on clicking the tree node text in React Treeview component

You can check and uncheck the checkboxes of tree view by clicking the tree node using the `nodeClicked` event of TreeView.

INDEX.JSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Hierarchical data source for TreeView component
    let hierarchicalData = [
        { id: '01', name: 'Local Disk (C:)', expanded: true,
            subChild: [
                {

```

```

        id: '01-01', name: 'Program Files',
        subChild: [
            { id: '01-01-01', name: 'Windows NT' },
            { id: '01-01-02', name: 'Windows Mail' },
            { id: '01-01-03', name: 'Windows Photo Viewer' },
        ]
    },
    {
        id: '01-02', name: 'Users', expanded: true,
        subChild: [
            { id: '01-02-01', name: 'Smith' },
            { id: '01-02-02', name: 'Public' },
            { id: '01-02-03', name: 'Admin' },
        ]
    },
    {
        id: '01-03', name: 'Windows',
        subChild: [
            { id: '01-03-01', name: 'Boot' },
            { id: '01-03-02', name: 'FileManager' },
            { id: '01-03-03', name: 'System32' },
        ]
    },
]
},
{
    id: '02', name: 'Local Disk (D:)',
    subChild: [
        {
            id: '02-01', name: 'Personals',
            subChild: [
                { id: '02-01-01', name: 'My photo.png' },
                { id: '02-01-02', name: 'Rental document.docx' },
                { id: '02-01-03', name: 'Pay slip.pdf' },
            ]
        },
        {
            id: '02-02', name: 'Projects',
            subChild: [
                { id: '02-02-01', name: 'ASP Application' },
                { id: '02-02-02', name: 'TypeScript Application' },
                { id: '02-02-03', name: 'React Application' },
            ]
        },
        {
            id: '02-03', name: 'Office',
            subChild: [
                { id: '02-03-01', name: 'Work details.docx' },
                { id: '02-03-02', name: 'Weekly report.docx' },
                { id: '02-03-03', name: 'Wish list.csv' },
            ]
        },
    ],
},
{
    id: '03', name: 'Local Disk (E:)', icon: 'folder',
    subChild: [

```

```

        {
            id: '03-01', name: 'Pictures',
            subChild: [
                { id: '03-01-01', name: 'Wind.jpg' },
                { id: '03-01-02', name: 'Stone.jpg' },
                { id: '03-01-03', name: 'Home.jpg' },
            ]
        },
        {
            id: '03-02', name: 'Documents',
            subChild: [
                { id: '03-02-01', name: 'Environment Pollution.docx' },
                { id: '03-02-02', name: 'Global Warming.ppt' },
                { id: '03-02-03', name: 'Social Network.pdf' },
            ]
        },
        {
            id: '03-03', name: 'Study Materials',
            subChild: [
                { id: '03-03-01', name: 'UI-Guide.pdf' },
                { id: '03-03-02', name: 'Tutorials.zip' },
                { id: '03-03-03', name: 'TypeScript.7z' },
            ]
        },
    ]
}

];
let fields = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let showCheckBox = true;
let treeObj;
function nodeCheck(args) {
    let checkedNode = [args.node];
    if (args.event.target.classList.contains('e-fullrow') ||
args.event.key == "Enter") {
        let getNodeDetails = treeObj.getNode(args.node);
        if (getNodeDetails.isChecked == 'true') {
            treeObj.uncheckAll(checkedNode);
        }
        else {
            treeObj.checkAll(checkedNode);
        }
    }
}
return (<div className='control-pane'>
    <div className='control-section'>
        <div className='control_wrapper'>
            /* Render TreeView */
            <TreeViewComponent fields={fields} showCheckBox={showCheckBox}
ref={(treeview) => { treeObj = treeview; }}
nodeClicked={nodeCheck.bind(this)} keyPress={nodeCheck.bind(this)} />
        </div>
    </div>
</div>);
}
export default App;

```

```
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeKeyPressEventArgs, NodeClickEventArgs} from
 '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  // Hierarchical data source for TreeView component
  let hierarchicalData: { [key: string]: Object }[] = [
    { id: '01', name: 'Local Disk (C:)', expanded: true,
      subChild: [
        {
          id: '01-01', name: 'Program Files',
          subChild: [
            { id: '01-01-01', name: 'Windows NT' },
            { id: '01-01-02', name: 'Windows Mail' },
            { id: '01-01-03', name: 'Windows Photo Viewer' },
          ]
        },
        {
          id: '01-02', name: 'Users', expanded: true,
          subChild: [
            { id: '01-02-01', name: 'Smith' },
            { id: '01-02-02', name: 'Public' },
            { id: '01-02-03', name: 'Admin' },
          ]
        },
        {
          id: '01-03', name: 'Windows',
          subChild: [
            { id: '01-03-01', name: 'Boot' },
            { id: '01-03-02', name: 'FileManager' },
            { id: '01-03-03', name: 'System32' },
          ]
        }
      ],
    },
    {
      id: '02', name: 'Local Disk (D:)',
      subChild: [
        {
          id: '02-01', name: 'Personals',
          subChild: [
            { id: '02-01-01', name: 'My photo.png' },
            { id: '02-01-02', name: 'Rental document.docx' },
            { id: '02-01-03', name: 'Pay slip.pdf' },
          ]
        },
        {
          id: '02-02', name: 'Projects',

```

```

        subChild: [
            { id: '02-02-01', name: 'ASP Application' },
            { id: '02-02-02', name: 'TypeScript Application' },
            { id: '02-02-03', name: 'React Application' },
        ]
    },
    {
        id: '02-03', name: 'Office',
        subChild: [
            { id: '02-03-01', name: 'Work details.docx' },
            { id: '02-03-02', name: 'Weekly report.docx' },
            { id: '02-03-03', name: 'Wish list.csv' },
        ]
    },
]
},
{
    id: '03', name: 'Local Disk (E:)', icon: 'folder',
    subChild: [
        {
            id: '03-01', name: 'Pictures',
            subChild: [
                { id: '03-01-01', name: 'Wind.jpg' },
                { id: '03-01-02', name: 'Stone.jpg' },
                { id: '03-01-03', name: 'Home.jpg' },
            ]
        },
        {
            id: '03-02', name: 'Documents',
            subChild: [
                { id: '03-02-01', name: 'Environment Pollution.docx' },
                { id: '03-02-02', name: 'Global Warming.ppt' },
                { id: '03-02-03', name: 'Social Network.pdf' },
            ]
        },
        {
            id: '03-03', name: 'Study Materials',
            subChild: [
                { id: '03-03-01', name: 'UI-Guide.pdf' },
                { id: '03-03-02', name: 'Tutorials.zip' },
                { id: '03-03-03', name: 'TypeScript.7z' },
            ]
        },
    ]
}
];
let fields: object = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let showCheckBox:boolean = true;
let treeObj: TreeViewComponent;
function nodeCheck(args: any){
    let checkedNode: any = [args.node];
    if (args.event.target.classList.contains('e-fullrow') || args.event.key
== "Enter") {
        let getNodeDetails: any = treeObj.getNode(args.node);
        if (getNodeDetails.isChecked == 'true') {
            treeObj.uncheckAll(checkedNode);

```



```

    } else {
      treeObj.checkAll (checkedNode);
    }
  }
}

return (
  <div className = 'control-pane'>
    <div className='control-section'>
      <div className='control_wrapper'>
        { /* Render TreeView */ }
        <TreeViewComponent fields={fields} showCheckBox={showCheckBox}
ref={(treeview) => { treeObj = treeview as TreeViewComponent; }}
nodeClicked={nodeCheck.bind(this)} keyPress={nodeCheck.bind(this)} />
      </div>
    </div>
  </div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Validate the text when renaming the tree node in React Treeview component

You can validate the tree node text while editing using `nodeEdited` event of the TreeView. Following is an example that shows how to validate and prevent empty values in tree node.

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  let treeObj;
  // Hierarchical data source for TreeView component
  let hierarchicalData = [
    { id: '01', name: 'Local Disk (C:)', expanded: true,
      subChild: [
        {
          id: '01-01', name: 'Program Files',
          subChild: [
            { id: '01-01-01', name: 'Windows NT' },
            { id: '01-01-02', name: 'Windows Mail' },
            { id: '01-01-03', name: 'Windows Photo Viewer' },
          ]
        },
        {
          id: '01-02', name: 'Users', expanded: true,
          subChild: [
            { id: '01-02-01', name: 'Smith' },
            { id: '01-02-02', name: 'Public' },
            { id: '01-02-03', name: 'Admin' },
          ]
        }
      ]
    },
  ],
}

```

```

        {
            id: '01-03', name: 'Windows',
            subChild: [
                { id: '01-03-01', name: 'Boot' },
                { id: '01-03-02', name: 'FileManager' },
                { id: '01-03-03', name: 'System32' },
            ]
        },
    ],
},
{
    id: '02', name: 'Local Disk (D:)',
    subChild: [
        {
            id: '02-01', name: 'Personals',
            subChild: [
                { id: '02-01-01', name: 'My photo.png' },
                { id: '02-01-02', name: 'Rental document.docx' },
                { id: '02-01-03', name: 'Pay slip.pdf' },
            ]
        },
        {
            id: '02-02', name: 'Projects',
            subChild: [
                { id: '02-02-01', name: 'ASP Application' },
                { id: '02-02-02', name: 'TypeScript Application' },
                { id: '02-02-03', name: 'React Application' },
            ]
        },
        {
            id: '02-03', name: 'Office',
            subChild: [
                { id: '02-03-01', name: 'Work details.docx' },
                { id: '02-03-02', name: 'Weekly report.docx' },
                { id: '02-03-03', name: 'Wish list.csv' },
            ]
        },
    ],
},
{
    id: '03', name: 'Local Disk (E:)', icon: 'folder',
    subChild: [
        {
            id: '03-01', name: 'Pictures',
            subChild: [
                { id: '03-01-01', name: 'Wind.jpg' },
                { id: '03-01-02', name: 'Stone.jpg' },
                { id: '03-01-03', name: 'Home.jpg' },
            ]
        },
        {
            id: '03-02', name: 'Documents',
            subChild: [
                { id: '03-02-01', name: 'Environment Pollution.docx' },
                { id: '03-02-02', name: 'Global Warming.ppt' },
                { id: '03-02-03', name: 'Social Network.pdf' },
            ]
        },
    ],
},

```

```

    ],
    },
    {
      id: '03-03', name: 'Study Materials',
      subChild: [
        { id: '03-03-01', name: 'UI-Guide.pdf' },
        { id: '03-03-02', name: 'Tutorials.zip' },
        { id: '03-03-03', name: 'TypeScript.7z' },
      ]
    },
  ],
}

];
let fields = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let allowEditing = true;
function onNodeEdited(args) {
  let displayContent = "";
  if (args.newText.trim() == "") {
    args.cancel = true;
    displayContent = "TreeView item text should not be empty";
  }
  else if (args.newText != args.oldText) {
    displayContent = "TreeView item text edited successfully";
  }
  else {
    displayContent = "";
  }
  document.getElementById("display").innerHTML = displayContent;
}
return (<div className='control-pane'>
  <div className='control-section'>
    <div className='control_wrapper'>
      { /* Render TreeView */ }
      <TreeViewComponent fields={fields} allowEditing={allowEditing}
ref={ (tree) => { treeObj = tree; } } nodeEdited={onNodeEdited.bind(this)} />
    </div>
    <div id="display"></div>
  </div>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeEditEventArgs} from '@syncfusion/ej2-react-
navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  let treeObj: TreeViewComponent;

```

```
// Hierarchical data source for TreeView component
let hierarchicalData: { [key: string]: Object }[] = [
  { id: '01', name: 'Local Disk (C:)', expanded: true,
    subChild: [
      {
        id: '01-01', name: 'Program Files',
        subChild: [
          { id: '01-01-01', name: 'Windows NT' },
          { id: '01-01-02', name: 'Windows Mail' },
          { id: '01-01-03', name: 'Windows Photo Viewer' },
        ]
      },
    ],
  },
  {
    id: '01-02', name: 'Users', expanded: true,
    subChild: [
      { id: '01-02-01', name: 'Smith' },
      { id: '01-02-02', name: 'Public' },
      { id: '01-02-03', name: 'Admin' },
    ]
  },
  {
    id: '01-03', name: 'Windows',
    subChild: [
      { id: '01-03-01', name: 'Boot' },
      { id: '01-03-02', name: 'FileManager' },
      { id: '01-03-03', name: 'System32' },
    ]
  },
],
{
  id: '02', name: 'Local Disk (D:)',
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ],
},
]
```

```

    ],
    {
      id: '03', name: 'Local Disk (E:)', icon: 'folder',
      subChild: [
        {
          id: '03-01', name: 'Pictures',
          subChild: [
            { id: '03-01-01', name: 'Wind.jpg' },
            { id: '03-01-02', name: 'Stone.jpg' },
            { id: '03-01-03', name: 'Home.jpg' },
          ]
        },
        {
          id: '03-02', name: 'Documents',
          subChild: [
            { id: '03-02-01', name: 'Environment Pollution.docx' },
            { id: '03-02-02', name: 'Global Warming.ppt' },
            { id: '03-02-03', name: 'Social Network.pdf' },
          ]
        },
        {
          id: '03-03', name: 'Study Materials',
          subChild: [
            { id: '03-03-01', name: 'UI-Guide.pdf' },
            { id: '03-03-02', name: 'Tutorials.zip' },
            { id: '03-03-03', name: 'TypeScript.7z' },
          ]
        }
      ]
    }
  ];
  let fields: object = { dataSource: hierarchicalData, id: 'id', text: 'name',
    child: 'subChild' };
  let allowEditing:boolean = true;
  function onNodeEdited(args: NodeEditEventArgs) {
    let displayContent:string = "";
    if (args.newText.trim() == "") {
      args.cancel=true;
      displayContent = "TreeView item text should not be empty";
    }
    else if (args.newText != args.oldText) {
      displayContent = "TreeView item text edited successfully";
    } else {
      displayContent = "";
    }
    document.getElementById("display").innerHTML = displayContent;
  }
  return (
    <div className = 'control-pane'>
      <div className='control-section'>
        <div className='control_wrapper'>
          { /* Render TreeView */ }
          <TreeViewComponent fields={fields} allowEditing={allowEditing}
ref={(tree) => { treeObj = tree }} nodeEdited={onNodeEdited.bind(this)} />
        </div>
        <div id="display"></div>
      </div>
    </div>
  )

```

```

        </div>
    </div>
    )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% enddraw %}

```

Customize the tree nodes based on levels in React Treeview component

You can customize the tree nodes level wise by adding custom cssClass to the component and enabling styles.

INDEX.JSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Hierarchical data source for TreeView component
    let hierarchicalData = [
        { id: '01', name: 'Local Disk (C:)', expanded: true,
            subChild: [
                {
                    id: '01-01', name: 'Program Files',
                    subChild: [
                        { id: '01-01-01', name: 'Windows NT' },
                        { id: '01-01-02', name: 'Windows Mail' },
                        { id: '01-01-03', name: 'Windows Photo Viewer' },
                    ]
                },
                {
                    id: '01-02', name: 'Users', expanded: true,
                    subChild: [
                        { id: '01-02-01', name: 'Smith' },
                        { id: '01-02-02', name: 'Public' },
                        { id: '01-02-03', name: 'Admin' },
                    ]
                },
                {
                    id: '01-03', name: 'Windows',
                    subChild: [
                        { id: '01-03-01', name: 'Boot' },
                        { id: '01-03-02', name: 'FileManager' },
                        { id: '01-03-03', name: 'System32' },
                    ]
                }
            ]
        },
        {
            id: '02', name: 'Local Disk (D:)',
            subChild: [
                {
                    id: '02-01', name: 'Personals',
                    subChild: [

```

```

        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
    ]
},
{
    id: '02-02', name: 'Projects',
    subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
    ]
},
{
    id: '02-03', name: 'Office',
    subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
    ]
},
]
},
{
    id: '03', name: 'Local Disk (E:)', icon: 'folder',
    subChild: [
        {
            id: '03-01', name: 'Pictures',
            subChild: [
                { id: '03-01-01', name: 'Wind.jpg' },
                { id: '03-01-02', name: 'Stone.jpg' },
                { id: '03-01-03', name: 'Home.jpg' },
            ]
        },
        {
            id: '03-02', name: 'Documents',
            subChild: [
                { id: '03-02-01', name: 'Environment Pollution.docx' },
                { id: '03-02-02', name: 'Global Warming.ppt' },
                { id: '03-02-03', name: 'Social Network.pdf' },
            ]
        },
        {
            id: '03-03', name: 'Study Materials',
            subChild: [
                { id: '03-03-01', name: 'UI-Guide.pdf' },
                { id: '03-03-02', name: 'Tutorials.zip' },
                { id: '03-03-03', name: 'TypeScript.7z' },
            ]
        },
    ]
}
];
let fields = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let cssClass = 'mytree';

```



```

    return (<div className='control-pane'>
      <div className='control-section'>
        <div className='control_wrapper'>
          { /* Render TreeView */ }
          <TreeViewComponent fields={fields} cssClass={cssClass}/>
          <div className="details">
            <label>Note:</label>
            <div><b>1. The font-weight "Bold" is applied for all the
leaf nodes</b></div>
            <div><i>2. The font-weight "Italic" is applied for first
level nodes</i></div>
            <div>3. The color "darkmagenta" is applied for second level
nodes</div>
          </div>
        </div>
      </div>
    </div>);
  }
  export default App;
  ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeEditEventArgs} from '@syncfusion/ej2-react-
navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  // Hierarchical data source for TreeView component
  let hierarchicalData: { [key: string]: Object }[] = [
    { id: '01', name: 'Local Disk (C:)', expanded: true,
      subChild: [
        {
          id: '01-01', name: 'Program Files',
          subChild: [
            { id: '01-01-01', name: 'Windows NT' },
            { id: '01-01-02', name: 'Windows Mail' },
            { id: '01-01-03', name: 'Windows Photo Viewer' },
          ]
        },
      ],
    },
    {
      id: '01-02', name: 'Users', expanded: true,
      subChild: [
        { id: '01-02-01', name: 'Smith' },
        { id: '01-02-02', name: 'Public' },
        { id: '01-02-03', name: 'Admin' },
      ]
    },
    {
      id: '01-03', name: 'Windows',
      subChild: [
        { id: '01-03-01', name: 'Boot' },
        { id: '01-03-02', name: 'FileManager' },
        { id: '01-03-03', name: 'System32' },
      ]
    }
  ],
}

```

```

    ],
    },
  ],
},
{
  id: '02', name: 'Local Disk (D:)',
  subChild: [
    {
      id: '02-01', name: 'Personals',
      subChild: [
        { id: '02-01-01', name: 'My photo.png' },
        { id: '02-01-02', name: 'Rental document.docx' },
        { id: '02-01-03', name: 'Pay slip.pdf' },
      ]
    },
    {
      id: '02-02', name: 'Projects',
      subChild: [
        { id: '02-02-01', name: 'ASP Application' },
        { id: '02-02-02', name: 'TypeScript Application' },
        { id: '02-02-03', name: 'React Application' },
      ]
    },
    {
      id: '02-03', name: 'Office',
      subChild: [
        { id: '02-03-01', name: 'Work details.docx' },
        { id: '02-03-02', name: 'Weekly report.docx' },
        { id: '02-03-03', name: 'Wish list.csv' },
      ]
    },
  ],
},
{
  id: '03', name: 'Local Disk (E:)', icon: 'folder',
  subChild: [
    {
      id: '03-01', name: 'Pictures',
      subChild: [
        { id: '03-01-01', name: 'Wind.jpg' },
        { id: '03-01-02', name: 'Stone.jpg' },
        { id: '03-01-03', name: 'Home.jpg' },
      ]
    },
    {
      id: '03-02', name: 'Documents',
      subChild: [
        { id: '03-02-01', name: 'Environment Pollution.docx' },
        { id: '03-02-02', name: 'Global Warming.ppt' },
        { id: '03-02-03', name: 'Social Network.pdf' },
      ]
    },
    {
      id: '03-03', name: 'Study Materials',
      subChild: [
        { id: '03-03-01', name: 'UI-Guide.pdf' },
        { id: '03-03-02', name: 'Tutorials.zip' },
      ]
    },
  ],
}

```

```

        { id: '03-03-03', name: 'TypeScript.7z' },
      ],
    },
  ],
}
];
let fields: object = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
let cssClass: string = 'mytree';
return (
  <div className = 'control-pane'>
    <div className='control-section'>
      <div className='control_wrapper'>
        { /* Render TreeView */ }
        <TreeViewComponent fields={fields} cssClass={cssClass} />
        <div className="details">
          <label>Note:</label>
          <div><b>1. The font-weight "Bold" is applied for all the
leaf nodes</b></div>
          <div><i>2. The font-weight "Italic" is applied for first
level nodes</i></div>
          <div>3. The color "darkmagenta" is applied for second level
nodes</div>
        </div>
      </div>
    </div>
  </div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Restrict the drag and drop for particular tree nodes in React Treeview component

You can able to restrict to drag and drop files under folder only. These can be achieved by using 'nodeDragStop' and 'nodeDragging' event of TreeView.

INDEX.JSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  // Hierarchical data source for TreeView component
  let hierarchicalData = [
    {
      nodeId: '01', nodeText: 'Music', icon: 'folder',
      nodeChild: [
        { nodeId: '01-01', nodeText: 'Gouttes.mp3', icon: 'audio' }
      ]
    },
    {
      nodeId: '02', nodeText: 'Videos', icon: 'folder',
      nodeChild: [
        { nodeId: '02-01', nodeText: 'Naturals.mp4', icon: 'video' },

```

```

        { nodeId: '02-02', nodeText: 'Wild.mpeg', icon: 'video' },
    ],
    {
        nodeId: '03', nodeText: 'Documents', icon: 'folder',
        nodeChild: [
            { nodeId: '03-01', nodeText: 'Environment Pollution.docx',
            icon: 'docx' },
            { nodeId: '03-02', nodeText: 'Global Water, Sanitation, &
            Hygiene.docx', icon: 'docx' },
            { nodeId: '03-03', nodeText: 'Global Warming.ppt', icon:
            'ppt' },
            { nodeId: '03-04', nodeText: 'Social Network.pdf', icon:
            'pdf' },
            { nodeId: '03-05', nodeText: 'Youth Empowerment.pdf', icon:
            'pdf' },
        ]
    },
    {
        nodeId: '04', nodeText: 'Pictures', icon: 'folder', expanded:
        true,
        nodeChild: [
            {
                nodeId: '04-01', nodeText: 'Camera Roll', icon: 'folder',
                expanded: true,
                nodeChild: [
                    { nodeId: '04-01-01', nodeText:
                    'WIN_20160726_094117.JPG', image:
                    'https://ej2.syncfusion.com/demos/src/treeview/images/employees/9.png' },
                    { nodeId: '04-01-02', nodeText:
                    'WIN_20160726_094118.JPG', image:
                    'https://ej2.syncfusion.com/demos/src/treeview/images/employees/3.png' },
                ]
            },
            { nodeId: '04-02', nodeText: 'Wind.jpg', icon: 'images' },
            { nodeId: '04-03', nodeText: 'Stone.jpg', icon: 'images' },
        ]
    },
    {
        nodeId: '05', nodeText: 'Downloads', icon: 'folder',
        nodeChild: [
            { nodeId: '05-01', nodeText: 'UI-Guide.pdf', icon: 'pdf' },
            { nodeId: '05-02', nodeText: 'Tutorials.zip', icon: 'zip' },
            { nodeId: '05-03', nodeText: 'Game.exe', icon: 'exe' },
            { nodeId: '05-04', nodeText: 'TypeScript.7z', icon: 'zip' },
        ]
    }
];
let fields = { dataSource: hierarchicalData, id: 'nodeId', text:
'nodeText', child: 'nodeChild', iconCss: 'icon', imageUrl: 'image' };
let allowDragAndDrop = true;
let sortOrder = 'Ascending';
function nodeDrag(args) {
    if (args.droppedNode != null &&
args.droppedNode.getElementsByClassName('folder') &&
args.droppedNode.getElementsByClassName('folder').length === 0) {
        args.dropIndicator = 'e-no-drop';
    }
}

```

```

    }
  }
  function dragStop(args) {
    if (args.droppedNode !== null &&
args.droppedNode.getElementsByClassName('folder') &&
args.droppedNode.getElementsByClassName('folder').length === 0) {
      args.cancel = true;
    }
  }
  return (<div className='control-pane'>
    <div className='control-section'>
      <div className='control_wrapper'>
        { /* Render TreeView */ }
        <TreeViewComponent fields={fields}
allowDragAndDrop={allowDragAndDrop} nodeDragStop={dragStop.bind(this)}
nodeDragging={nodeDrag.bind(this)} />
      </div>
    </div>
  </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, DragAndDropEventArgs} from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  // Hierarchical data source for TreeView component
  let hierarchicalData: { [key: string]: Object }[] = [
    {
      nodeId: '01', nodeText: 'Music', icon: 'folder',
      nodeChild: [
        { nodeId: '01-01', nodeText: 'Gouttes.mp3', icon: 'audio' }
      ]
    },
    {
      nodeId: '02', nodeText: 'Videos', icon: 'folder',
      nodeChild: [
        { nodeId: '02-01', nodeText: 'Naturals.mp4', icon: 'video' },
        { nodeId: '02-02', nodeText: 'Wild.mpeg', icon: 'video' },
      ]
    },
    {
      nodeId: '03', nodeText: 'Documents', icon: 'folder',
      nodeChild: [
        { nodeId: '03-01', nodeText: 'Environment Pollution.docx',
icon: 'docx' },
        { nodeId: '03-02', nodeText: 'Global Water, Sanitation, &
Hygiene.docx', icon: 'docx' },
        { nodeId: '03-03', nodeText: 'Global Warming.ppt', icon:
'ppt' },

```

```

        { nodeId: '03-04', nodeText: 'Social Network.pdf', icon:
'pdf' },
        { nodeId: '03-05', nodeText: 'Youth Empowerment.pdf', icon:
'pdf' },
    ]
},
{
    nodeId: '04', nodeText: 'Pictures', icon: 'folder', expanded:
true,
    nodeChild: [
        {
            nodeId: '04-01', nodeText: 'Camera Roll', icon: 'folder',
expanded: true,
            nodeChild: [
                { nodeId: '04-01-01', nodeText:
'WIN_20160726_094117.JPG', image:
'https://ej2.syncfusion.com/demos/src/treeview/images/employees/9.png' },
                { nodeId: '04-01-02', nodeText:
'WIN_20160726_094118.JPG', image:
'https://ej2.syncfusion.com/demos/src/treeview/images/employees/3.png' },
            ]
        },
        { nodeId: '04-02', nodeText: 'Wind.jpg', icon: 'images' },
        { nodeId: '04-03', nodeText: 'Stone.jpg', icon: 'images' },
    ]
},
{
    nodeId: '05', nodeText: 'Downloads', icon: 'folder',
    nodeChild: [
        { nodeId: '05-01', nodeText: 'UI-Guide.pdf', icon: 'pdf' },
        { nodeId: '05-02', nodeText: 'Tutorials.zip', icon: 'zip' },
        { nodeId: '05-03', nodeText: 'Game.exe', icon: 'exe' },
        { nodeId: '05-04', nodeText: 'TypeScript.7z', icon: 'zip' },
    ]
}
];
let fields: Object = { dataSource: hierarchicalData, id: 'nodeId', text:
'nodeText', child: 'nodeChild', iconCss: 'icon', imageUrl: 'image' };
let allowDragAndDrop: boolean = true;
let sortOrder: string = 'Ascending';
function nodeDrag(args: DragAndDropEventArgs): void {
    if (args.droppedNode != null &&
args.droppedNode.getElementsByClassName('folder') &&
args.droppedNode.getElementsByClassName('folder').length === 0) {
        args.dropIndicator = 'e-no-drop';
    }
}
function dragStop(args: DragAndDropEventArgs): void {
    if (args.droppedNode != null &&
args.droppedNode.getElementsByClassName('folder') &&
args.droppedNode.getElementsByClassName('folder').length === 0) {
        args.cancel = true;
    }
}
return (
    <div className = 'control-pane'>
        <div className='control-section'>

```

```

        <div className='control_wrapper'>
            {/* Render TreeView */}
            <TreeViewComponent fields={fields}
allowDragAndDrop={allowDragAndDrop} nodeDragStop={dragStop.bind(this) }
nodeDragging={nodeDrag.bind(this) }/>
        </div>
    </div>
</div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Accordion tree in React Treeview component

Accordion is an interface where a list of items can be collapsed or expanded, but only one list can be collapsed or expanded at a time. You can customize the TreeView to make it behave as an accordion. Refer to the following code sample to create an accordion tree.

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // Data source for TreeView component
    let continents = [
        {
            code: "AF", name: "Africa", countries: [
                { code: "NGA", name: "Nigeria" },
                { code: "EGY", name: "Egypt" },
                { code: "ZAF", name: "South Africa" }
            ]
        },
        {
            code: "AS", name: "Asia", countries: [
                { code: "CHN", name: "China" },
                { code: "IND", name: "India", selected: true },
                { code: "JPN", name: "Japan" }
            ]
        },
        {
            code: "EU", name: "Europe", countries: [
                { code: "DNK", name: "Denmark" },
                { code: "FIN", name: "Finland" },
                { code: "AUT", name: "Austria",
            ]
        },
        {
            code: "NA", name: "North America", countries: [
                { code: "USA", name: "United States of America" },
                { code: "CUB", name: "Cuba" },
                { code: "MEX", name: "Mexico" }
            ]
        }
    ],
}

```



```

        {
            code: "OC", name: "Oceania", countries: [
                { code: "AUS", name: "Australia" },
                { code: "NZL", name: "New Zealand" },
                { code: "WSM", name: "Samoa" }
            ]
        }
    ];
    let field = { dataSource: continents, id: "code", text: "name", child:
"countries" };
    let style = 'accordiontree';
    let treeObj;
    function nodeSelect(args) {
        if (args.node.classList.contains('e-level-1')) {
            treeObj.collapseAll();
            treeObj.expandAll([args.node]);
            treeObj.expandOn = 'None';
        }
    }
    return (<div className='control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                { /* Render TreeView */ }
                <TreeViewComponent fields={field} cssClass={style}
ref={(treeview) => { treeObj = treeview; }}
nodeSelected={nodeSelect.bind(this)} />
            </div>
        </div>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent, NodeSelectEventArgs } from '@syncfusion/ej2-react-
navigations';
function App() {
    // Data source for TreeView component
    let continents: { [key: string]: Object }[] = [
        {
            code: "AF", name: "Africa", countries: [
                { code: "NGA", name: "Nigeria" },
                { code: "EGY", name: "Egypt" },
                { code: "ZAF", name: "South Africa" }
            ]
        },
        {
            code: "AS", name: "Asia", countries: [
                { code: "CHN", name: "China" },
                { code: "IND", name: "India", selected: true },
                { code: "JPN", name: "Japan" }
            ]
        }
    ];
}

```

```

    ],
    {
      code: "EU", name: "Europe", countries: [
        { code: "DNK", name: "Denmark" },
        { code: "FIN", name: "Finland" },
        { code: "AUT", name: "Austria",
        }
      ]
    },
    {
      code: "NA", name: "North America", countries: [
        { code: "USA", name: "United States of America" },
        { code: "CUB", name: "Cuba" },
        { code: "MEX", name: "Mexico" }
      ]
    },
    {
      code: "OC", name: "Oceania", countries: [
        { code: "AUS", name: "Australia" },
        { code: "NZL", name: "New Zealand" },
        { code: "WSM", name: "Samoa" }
      ]
    }
  ];
  let field:Object={ dataSource: continents, id: "code", text: "name",
  child: "countries" };
  let style:string = 'accordiantree';
  let treeObj: TreeViewComponent;
  function nodeSelect(args: NodeSelectEventArgs): void {
    if (args.node.classList.contains('e-level-1')) {
      treeObj.collapseAll();
      treeObj.expandAll([args.node]);
      treeObj.expandOn = 'None'
    }
  }
  return (
    <div className = 'control-pane'>
      <div className='control-section'>
        <div className='control_wrapper'>
          { /* Render TreeView */ }
          <TreeViewComponent fields={field} cssClass={style}
ref={(treeview) => { treeObj = treeview as TreeViewComponent; }}
nodeSelected={nodeSelect.bind(this)} />
        </div>
      </div>
    </div>
  )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Auto hide show expand collapse icon in React Treeview component

You can display the expand icon by hovering the mouse over TreeView and hide the expand icon by leaving the mouse from TreeView. Refer to the following code sample to hide/show the expand/collapse icon automatically using the mouse.

INDEX.JSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let countries = [
        { id: 1, name: 'India', hasChild: true },
        { id: 2, pid: 1, name: 'Assam' },
        { id: 3, pid: 1, name: 'Bihar' },
        { id: 4, pid: 1, name: 'Tamil Nadu' },
        { id: 6, pid: 1, name: 'Punjab' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'France', hasChild: true },
        { id: 12, pid: 11, name: 'Pays de la Loire' },
        { id: 13, pid: 11, name: 'Aquitaine' },
        { id: 14, pid: 11, name: 'Brittany' },
        { id: 15, pid: 11, name: 'Lorraine' },
        { id: 16, name: 'Australia', hasChild: true },
        { id: 17, pid: 16, name: 'New South Wales' },
        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ];
    let field = { dataSource: countries, id: 'id', text: 'name', parentID:
'pid', hasChildren: 'hasChild' };
    let treeObj;
    function onCreate() {
        let collapse = treeObj.element.querySelectorAll('.e-icons.e-icon-
collapsible');
        let expand = treeObj.element.querySelectorAll('.e-icons.e-icon-
expandable');
        hideIcon(expand, collapse);
        treeObj.element.addEventListener('mouseenter', (event) => {
            showIcon(expand, collapse);
        });
        treeObj.element.addEventListener('mouseleave', (event) => {
            hideIcon(expand, collapse);
        });
    }
}
```

```

// hides expand/collapse icon on hovering the mouse
function hideIcon(expand, collapse) {
  for (let i = 0; i < collapse.length; i++) {
    collapse[i].setAttribute('style', 'visibility: hidden');
  }
  for (let j = 0; j < expand.length; j++) {
    expand[j].setAttribute('style', 'visibility: hidden');
  }
}

// shows expand/collapse icon while leaving the mouse
function showIcon(expand, collapse) {
  for (let i = 0; i < collapse.length; i++) {
    collapse[i].setAttribute('style', "visibility", "");
  }
  for (let j = 0; j < expand.length; j++) {
    expand[j].setAttribute('style', "visibility", "");
  }
}

return (<div className='control-pane'>
  <div className='control-section'>
    <div className='control_wrapper'>
      { /* Render TreeView */ }
      <TreeViewComponent fields={field} ref={(treeview) => { treeObj =
treeview; }} created={onCreate.bind(this)} />
    </div>
  </div>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
  // Data source for TreeView component
  let countries: { [key: string]: Object }[] = [
    { id: 1, name: 'India', hasChild: true },
    { id: 2, pid: 1, name: 'Assam' },
    { id: 3, pid: 1, name: 'Bihar' },
    { id: 4, pid: 1, name: 'Tamil Nadu' },
    { id: 6, pid: 1, name: 'Punjab' },
    { id: 7, name: 'Brazil', hasChild: true },
    { id: 8, pid: 7, name: 'Paraná' },
    { id: 9, pid: 7, name: 'Ceará' },
    { id: 10, pid: 7, name: 'Acre' },
    { id: 11, name: 'France', hasChild: true },
    { id: 12, pid: 11, name: 'Pays de la Loire' },
    { id: 13, pid: 11, name: 'Aquitaine' },
    { id: 14, pid: 11, name: 'Brittany' },

```

```

    { id: 15, pid: 11, name: 'Lorraine' },
    { id: 16, name: 'Australia', hasChild: true },
    { id: 17, pid: 16, name: 'New South Wales' },
    { id: 18, pid: 16, name: 'Victoria' },
    { id: 19, pid: 16, name: 'South Australia' },
    { id: 20, pid: 16, name: 'Western Australia' },
    { id: 21, name: 'China', hasChild: true },
    { id: 22, pid: 21, name: 'Guangzhou' },
    { id: 23, pid: 21, name: 'Shanghai' },
    { id: 24, pid: 21, name: 'Beijing' },
    { id: 25, pid: 21, name: 'Shantou' }
  ];
  let field:Object={ dataSource: countries, id: 'id', text: 'name',
parentID: 'pid', hasChildren: 'hasChild' };
  let treeObj: TreeViewComponent;
  function onCreate(): void {
    let collapse: NodeListOf<Element> =
treeObj.element.querySelectorAll('.e-icons.e-icon-collapsible');
    let expand: NodeListOf<Element> =
treeObj.element.querySelectorAll('.e-icons.e-icon-expandable');
    hideIcon(expand, collapse);
    treeObj.element.addEventListener('mouseenter', (event:any) => {
      showIcon(expand, collapse);
    });
    treeObj.element.addEventListener('mouseleave', (event:any) => {
      hideIcon(expand, collapse);
    });
  }
  // hides expand/collapse icon on hovering the mouse
  function hideIcon(expand: any,collapse: any): void {
    for(let i: number = 0; i < collapse.length; i++){
      collapse[i].setAttribute('style','visibility: hidden');
    }
    for(let j: number = 0; j < expand.length; j++){
      expand[j].setAttribute('style','visibility: hidden');
    }
  }
  // shows expand/collapse icon while leaving the mouse
  function showIcon(expand: any, collapse: any): void {
    for(let i: number = 0; i < collapse.length; i++){
      collapse[i].setAttribute('style',"visibility", "");
    }
    for(let j: number = 0; j < expand.length; j++){
      expand[j].setAttribute('style',"visibility", "");
    }
  }
  return (
    <div className = 'control-pane'>
      <div className='control-section'>
        <div className='control_wrapper'>
          /* Render TreeView */
          <TreeViewComponent fields={field} ref={(treeview) => { treeObj =
treeview as TreeViewComponent; }} created={onCreate.bind(this)}>/>
        </div>
      </div>
    </div>
  )

```

```

}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Filtering tree nodes in React Treeview component

You can filter the tree nodes based on their text using the **DataManager** plugin and the **fields** property of the TreeView.

The following code example demonstrates how to filter the tree nodes in a TreeView.

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { DataManager, Query, Predicate } from '@syncfusion/ej2-data';
import { MaskedTextBoxComponent } from "@syncfusion/ej2-react-inputs";
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // list data source for TreeView component
    let localData = [
        { id: 1, name: "Australia", hasChild: true },
        { id: 2, pid: 1, name: "New South Wales" },
        { id: 3, pid: 1, name: "Victoria" },
        { id: 4, pid: 1, name: "South Australia" },
        { id: 6, pid: 1, name: "Western Australia" },
        { id: 7, name: "Brazil", hasChild: true },
        { id: 8, pid: 7, name: "Paraná" },
        { id: 9, pid: 7, name: "Ceará" },
        { id: 10, pid: 7, name: "Acre" },
        { id: 11, name: "China", hasChild: true },
        { id: 12, pid: 11, name: "Guangzhou" },
        { id: 13, pid: 11, name: "Shanghai" },
        { id: 14, pid: 11, name: "Beijing" },
        { id: 15, pid: 11, name: "Shantou" },
        { id: 16, name: "France", hasChild: true },
        { id: 17, pid: 16, name: "Pays de la Loire" },
        { id: 18, pid: 16, name: "Aquitaine" },
        { id: 19, pid: 16, name: "Brittany" },
        { id: 20, pid: 16, name: "Lorraine" },
        { id: 21, name: "India", hasChild: true },
        { id: 22, pid: 21, name: "Assam" },
        { id: 23, pid: 21, name: "Bihar" },
        { id: 24, pid: 21, name: "Tamil Nadu" },
        { id: 25, pid: 21, name: "Punjab" }
    ];
    // Mapping TreeView fields property with data source properties
    let field = { dataSource: localData, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild', expanded: "expanded" };
    let treeObj;
    let maskObj;
    //Change the dataSource for TreeView
    function changeDataSource(data) {
        treeObj.fields = {

```

```

        dataSource: data, id: 'id', text: 'name', parentID: 'pid',
        hasChildren: 'hasChild'
    };
}
//Filtering the TreeNodes
function searchNodes(args) {
    let _text = maskObj.element.value;
    let predicats = [], _array = [], _filter = [];
    if (_text == "") {
        changeDataSource(localData);
    }
    else {
        let predicate = new Predicate('name', 'startswith', _text, true);
        let filteredList = new DataManager(localData).executeLocal(new
Query().where(predicate));
        console.log(filteredList);
        for (let j = 0; j < filteredList.length; j++) {
            _filter.push(filteredList[j]["id"]);
            let filters = getFilterItems(filteredList[j], localData);
            for (let i = 0; i < filters.length; i++) {
                if (_array.indexOf(filters[i]) == -1 && filters[i] !=
null) {
                    _array.push(filters[i]);
                    predicats.push(new Predicate('id', 'equal',
filters[i], false));
                }
            }
            if (predicats.length == 0) {
                changeDataSource([]);
            }
            else {
                let query = new Query().where(Predicate.or(predicats));
                let newList = new DataManager(localData).executeLocal(query);
                changeDataSource(newList);
                let proxy = treeObj;
                setTimeout(function () {
                    proxy.expandAll();
                }, 100);
            }
        }
    }
}
//Find the Parent Nodes for corresponding childs
function getFilterItems(fList, list) {
    let nodes = [];
    nodes.push(fList["id"]);
    let query2 = new Query().where('id', 'equal', fList["pid"], false);
    let fList1 = new DataManager(list).executeLocal(query2);
    if (fList1.length != 0) {
        let pNode = getFilterItems(fList1[0], list);
        for (let i = 0; i < pNode.length; i++) {
            if (nodes.indexOf(pNode[i]) == -1 && pNode[i] != null)
                nodes.push(pNode[i]);
        }
        return nodes;
    }
    return nodes;
}

```



```

    }
    return (<div className='control-pane'>
      <div className='control-section'>
        <div className='control_wrapper'>
          <MaskedTextBoxComponent ref={ (mask) => { maskObj = mask;
}} change={searchNodes.bind(this)} />
          { /* Render TreeView */ }
          <TreeViewComponent fields={field} ref={ (treeview) => {
treeObj = treeview; }} />
        </div>
      </div>
    </div>);
  }
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { DataManager, Query, ReturnOption, Predicate } from '@syncfusion/ej2-
data';
import { MaskedTextBoxComponent, ChangeEventArgs } from "@syncfusion/ej2-
react-inputs";
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
  // list data source for TreeView component
  let localData: { [key: string]: Object }[] = [
    { id: 1, name: "Australia", hasChild: true },
    { id: 2, pid: 1, name: "New South Wales" },
    { id: 3, pid: 1, name: "Victoria" },
    { id: 4, pid: 1, name: "South Australia" },
    { id: 6, pid: 1, name: "Western Australia" },
    { id: 7, name: "Brazil", hasChild: true },
    { id: 8, pid: 7, name: "Paraná" },
    { id: 9, pid: 7, name: "Ceará" },
    { id: 10, pid: 7, name: "Acre" },
    { id: 11, name: "China", hasChild: true },
    { id: 12, pid: 11, name: "Guangzhou" },
    { id: 13, pid: 11, name: "Shanghai" },
    { id: 14, pid: 11, name: "Beijing" },
    { id: 15, pid: 11, name: "Shantou" },
    { id: 16, name: "France", hasChild: true },
    { id: 17, pid: 16, name: "Pays de la Loire" },
    { id: 18, pid: 16, name: "Aquitaine" },
    { id: 19, pid: 16, name: "Brittany" },
    { id: 20, pid: 16, name: "Lorraine" },
    { id: 21, name: "India", hasChild: true },
    { id: 22, pid: 21, name: "Assam" },
    { id: 23, pid: 21, name: "Bihar" },
    { id: 24, pid: 21, name: "Tamil Nadu" },
    { id: 25, pid: 21, name: "Punjab" }
  ];
  // Mapping TreeView fields property with data source properties

```

```

    let field:Object = { dataSource: localData, id: 'id', parentID: 'pid',
text: 'name', hasChildren: 'hasChild', expanded: "expanded" }
    let treeObj: TreeViewComponent;
    let maskObj: MaskedTextBoxComponent;
    //Change the dataSource for TreeView
    function changeDataSource(data: any) {
        treeObj.fields = {
            dataSource: data, id: 'id', text: 'name',parentID: 'pid',
hasChildren: 'hasChild'
        }
    }
    //Filtering the TreeNodes
    function searchNodes(args: ChangeEventArgs) {
        let _text = maskObj.element.value;
        let predicats = [], _array = [], _filter = [];
        if (_text == "") {
            changeDataSource(localData);
        }
        else {
            let predicate = new Predicate('name', 'startswith', _text, true);
            let filteredList : any = new
DataManager(localData).executeLocal(new Query().where(predicate));
            console.log(filteredList)
            for (let j = 0; j < filteredList.length; j++) {
                _filter.push(filteredList[j]["id"]);
                let filters = getFilterItems(filteredList[j], localData);
                for (let i = 0; i < filters.length; i++) {
                    if (_array.indexOf(filters[i]) == -1 && filters[i] !=
null) {
                        _array.push(filters[i]);
                        predicats.push(new Predicate('id', 'equal',
filters[i], false));
                    }
                }
            }
            if (predicats.length == 0) {
                changeDataSource([]);
            } else {
                let query = new Query().where(Predicate.or(predicats));
                let newList : any =new
DataManager(localData).executeLocal(query);
                changeDataSource(newList);
                let proxy: any = treeObj as TreeViewComponent;
                setTimeout(function (this: any) {
                    proxy.expandAll();
                }, 100);
            }
        }
    }
    //Find the Parent Nodes for corresponding childs
    function getFilterItems(fList: any, list: any): any {
        let nodes = [];
        nodes.push(fList["id"]);
        let query2 = new Query().where('id', 'equal', fList["pid"], false);
        let fList1 = new DataManager(list).executeLocal(query2);
        if (fList1.length != 0) {
            let pNode:any= getFilterItems(fList1[0], list);

```

```

        for (let i = 0; i < pNode.length; i++) {
            if (nodes.indexOf(pNode[i]) == -1 && pNode[i] != null)
                nodes.push(pNode[i]);
        }
        return nodes;
    }
    return nodes;
}
return (
    <div className = 'control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                <MaskedTextBoxComponent ref={ (mask) => { maskObj = mask
as MaskedTextBoxComponent; }} change={searchNodes.bind(this)} />
                { /* Render TreeView */ }
                <TreeViewComponent fields={field} ref={ (treeview) => {
treeObj = treeview as TreeViewComponent; }} />
            </div>
        </div>
    </div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Set tool tip for tree nodes in React Treeview component

TreeView control allows you to set tooltip option to tree nodes using the [tooltip](#) property. The following code example demonstrates how to set tooltip for TreeView nodes.

INDEX.JSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let hierarchicalData = [
        { id: '01', name: 'Local Disk (C:)', expanded: true, tooltip: 'Local
Disk (C:)',
            subChild: [
                {
                    id: '01-01', name: 'Program Files', tooltip: 'Program
Files',
                    subChild: [
                        { id: '01-01-01', name: 'Windows NT', tooltip:
'Windows NT' },
                        { id: '01-01-02', name: 'Windows Mail', tooltip:
'Windows Mail' },
                        { id: '01-01-03', name: 'Windows Photo Viewer',
tooltip: 'Windows Photo Viewer' },
                    ]
                },
            ]
        },
    ]
}

```

```

        id: '01-02', name: 'Users', expanded: true, tooltip:
'Users',
        subChild: [
            { id: '01-02-01', name: 'Smith', tooltip: 'Smith' },
            { id: '01-02-02', name: 'Public', tooltip: 'Public'
},
            { id: '01-02-03', name: 'Admin', tooltip: 'Admin' },
        ]
    },
    {
        id: '01-03', name: 'Windows', tooltip: 'Windows',
        subChild: [
            { id: '01-03-01', name: 'Boot', tooltip: 'Boot' },
            { id: '01-03-02', name: 'FileManager', tooltip:
'FileManager' },
            { id: '01-03-03', name: 'System32', tooltip:
'System32' },
        ]
    },
]
},
{
    id: '02', name: 'Local Disk (D:)', tooltip: 'Local Disk (D:)',
    subChild: [
        {
            id: '02-01', name: 'Personals', tooltip: 'Personals',
            subChild: [
                { id: '02-01-01', name: 'My photo.png', tooltip: 'My
photo.png' },
                { id: '02-01-02', name: 'Rental document.docx',
tooltip: 'Rental document.docx' },
                { id: '02-01-03', name: 'Pay slip.pdf', tooltip: 'Pay
slip.pdf' },
            ]
        },
        {
            id: '02-02', name: 'Projects', tooltip: 'Projects',
            subChild: [
                { id: '02-02-01', name: 'ASP Application', tooltip:
'ASP Application' },
                { id: '02-02-02', name: 'TypeScript Application',
tooltip: 'TypeScript Application' },
                { id: '02-02-03', name: 'React Application', tooltip:
'React Application' },
            ]
        },
        {
            id: '02-03', name: 'Office', tooltip: 'Office',
            subChild: [
                { id: '02-03-01', name: 'Work details.docx', tooltip:
'Work details.docx' },
                { id: '02-03-02', name: 'Weekly report.docx',
tooltip: 'Weekly report.docx' },
                { id: '02-03-03', name: 'Wish list.csv', tooltip:
'Wish list.csv' },
            ]
        },
    ],
},
]
},
]
}

```

```

    ]
  },
  {
    id: '03', name: 'Local Disk (E:)', tooltip: 'Local Disk (E:)',
    subChild: [
      {
        id: '03-01', name: 'Pictures', tooltip: 'Pictures',
        subChild: [
          { id: '03-01-01', name: 'Wind.jpg', tooltip:
'Wind.jpg' },
          { id: '03-01-02', name: 'Stone.jpg', tooltip:
'Stone.jpg' },
          { id: '03-01-03', name: 'Home.jpg', tooltip:
'Home.jpg' },
        ]
      },
      {
        id: '03-02', name: 'Documents', tooltip: 'Documents',
        subChild: [
          { id: '03-02-01', name: 'Environment Pollution.docx',
tooltip: 'Environment Pollution.docx' },
          { id: '03-02-02', name: 'Global Warming.ppt',
tooltip: 'Global Warming.ppt' },
          { id: '03-02-03', name: 'Social Network.pdf',
tooltip: 'Social Network.pdf' },
        ]
      },
      {
        id: '03-03', name: 'Study Materials', tooltip: 'Study
Materials',
        subChild: [
          { id: '03-03-01', name: 'UI-Guide.pdf', tooltip: 'UI-
Guide.pdf' },
          { id: '03-03-02', name: 'Tutorials.zip', tooltip:
'Tutorials.zip' },
          { id: '03-03-03', name: 'TypeScript.7z', tooltip:
'TypeScript.7z' },
        ]
      },
    ]
  }
];
let field = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'subChild' };
return (<div className='control-pane'>
  <div className='control-section'>
    <div className='control_wrapper'>
      { /* Render TreeView */}
      <TreeViewComponent fields={field}/>
    </div>
  </div>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent} from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let hierarchicalData: { [key: string]: Object }[] = [
        { id: '01', name: 'Local Disk (C:)', expanded: true, tooltip: 'Local
        Disk (C:)',
            subChild: [
                {
                    id: '01-01', name: 'Program Files', tooltip: 'Program Files',
                    subChild: [
                        { id: '01-01-01', name: 'Windows NT', tooltip: 'Windows
                        NT' },
                        { id: '01-01-02', name: 'Windows Mail', tooltip:
                        'Windows Mail' },
                        { id: '01-01-03', name: 'Windows Photo Viewer', tooltip:
                        'Windows Photo Viewer' },
                    ]
                },
                {
                    id: '01-02', name: 'Users', expanded: true, tooltip: 'Users',
                    subChild: [
                        { id: '01-02-01', name: 'Smith', tooltip: 'Smith' },
                        { id: '01-02-02', name: 'Public', tooltip: 'Public' },
                        { id: '01-02-03', name: 'Admin', tooltip: 'Admin' },
                    ]
                },
                {
                    id: '01-03', name: 'Windows', tooltip: 'Windows',
                    subChild: [
                        { id: '01-03-01', name: 'Boot', tooltip: 'Boot' },
                        { id: '01-03-02', name: 'FileManager', tooltip:
                        'FileManager' },
                        { id: '01-03-03', name: 'System32', tooltip: 'System32' },
                    ]
                },
            ],
        },
        {
            id: '02', name: 'Local Disk (D:)', tooltip: 'Local Disk (D:)',
            subChild: [
                {
                    id: '02-01', name: 'Personals', tooltip: 'Personals',
                    subChild: [
                        { id: '02-01-01', name: 'My photo.png', tooltip: 'My
                        photo.png' },
                        { id: '02-01-02', name: 'Rental document.docx', tooltip:
                        'Rental document.docx' },
                        { id: '02-01-03', name: 'Pay slip.pdf', tooltip: 'Pay
                        slip.pdf' },
                    ]
                },
            ],
        },
    ],
}

```

```

        {
            id: '02-02', name: 'Projects', tooltip: 'Projects',
            subChild: [
                { id: '02-02-01', name: 'ASP Application', tooltip: 'ASP
Application' },
                { id: '02-02-02', name: 'TypeScript Application',
tooltip: 'TypeScript Application' },
                { id: '02-02-03', name: 'React Application' , tooltip:
'React Application'},
            ]
        },
        {
            id: '02-03', name: 'Office', tooltip: 'Office',
            subChild: [
                { id: '02-03-01', name: 'Work details.docx' ,
tooltip: 'Work details.docx' },
                { id: '02-03-02', name: 'Weekly report.docx', tooltip:
'Weekly report.docx' },
                { id: '02-03-03', name: 'Wish list.csv', tooltip: 'Wish
list.csv' },
            ]
        },
    ],
    {
        id: '03', name: 'Local Disk (E:)', tooltip: 'Local Disk (E:)',
        subChild: [
            {
                id: '03-01', name: 'Pictures', tooltip: 'Pictures',
                subChild: [
                    { id: '03-01-01', name: 'Wind.jpg', tooltip: 'Wind.jpg'
},
                    { id: '03-01-02', name: 'Stone.jpg', tooltip: 'Stone.jpg'
},
                    { id: '03-01-03', name: 'Home.jpg', tooltip: 'Home.jpg'
},
                ]
            },
            {
                id: '03-02', name: 'Documents', tooltip: 'Documents',
                subChild: [
                    { id: '03-02-01', name: 'Environment Pollution.docx' ,
tooltip: 'Environment Pollution.docx' },
                    { id: '03-02-02', name: 'Global Warming.ppt', tooltip:
'Global Warming.ppt' },
                    { id: '03-02-03', name: 'Social Network.pdf', tooltip:
'Social Network.pdf' },
                ]
            },
            {
                id: '03-03', name: 'Study Materials', tooltip: 'Study
Materials',
                subChild: [
                    { id: '03-03-01', name: 'UI-Guide.pdf' , tooltip: 'UI-
Guide.pdf' },
                    { id: '03-03-02', name: 'Tutorials.zip', tooltip:
'Tutorials.zip' },
                ]
            }
        ]
    }

```



```

        { id: '03-03-03', name: 'TypeScript.7z' , tooltip:
        'TypeScript.7z' },
      ]
    },
  ]
}
];
let field:Object = {  dataSource: hierarchicalData, id: 'id', text:
'name', child: 'subChild' };
return (
  <div className = 'control-pane'>
    <div className='control-section'>
      <div className='control_wrapper'>
        { /* Render TreeView */ }
        <TreeViewComponent fields={field} />
      </div>
    </div>
  </div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Sorting treeview level wise in React Treeview component

You can sort the TreeView nodes based on their level. When using the `sortOrder` property, the whole TreeView is sorted. When you sort a particular level, you can use the following code sample. The following code sample demonstrates how to sort the parent node alone in TreeView.

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
import { DataManager, Query } from '@syncfusion/ej2-data';
enableRipple(true);
function App() {
  // Data source for TreeView component
  let Countries = [
    { id: 1, name: 'India', hasChild: true },
    { id: 2, pid: 1, name: 'Assam' },
    { id: 3, pid: 1, name: 'Bihar' },
    { id: 4, pid: 1, name: 'Tamil Nadu' },
    { id: 6, pid: 1, name: 'Punjab' },
    { id: 7, name: 'Brazil', hasChild: true },
    { id: 8, pid: 7, name: 'Paraná' },
    { id: 9, pid: 7, name: 'Ceará' },
    { id: 10, pid: 7, name: 'Acre' },
    { id: 11, name: 'France', hasChild: true },
    { id: 12, pid: 11, name: 'Pays de la Loire' },
    { id: 13, pid: 11, name: 'Aquitaine' },
    { id: 14, pid: 11, name: 'Brittany' },
    { id: 15, pid: 11, name: 'Lorraine' },
    { id: 16, name: 'Australia', hasChild: true },
    { id: 17, pid: 16, name: 'New South Wales' },
  ]
}

```

```

        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ];
    let field = { dataSource: Countries, id: 'id', text: 'name', parentID:
'pid', hasChildren: 'hasChild' };
    let newData;
    let treeObj;
    function onNodeExpand(args) {
        if (args.isInteracted && args.node.querySelector('li') === null) {
            let id = parseInt(args.node.getAttribute("data-uid"));
            let childData = new DataManager(newData).executeLocal(new
Query().where(treeObj.fields.parentID, 'equal', id, false));
            treeObj.addNodes(childData, args.node, null);
        }
    }
    function onCreate() {
        newData = treeObj.fields.dataSource;
        // Selects the first level nodes alone
        let resultData = new
DataManager(treeObj.getTreeData()).executeLocal(new
Query().where(treeObj.fields.parentID, 'equal', undefined, false));
        let name = [];
        for (let i = 0; i < resultData.length; i++) {
            name.push(resultData[i][treeObj.fields.text]);
        }
        name.sort();
        let arr = [];
        for (let j = 0; j < name.length; j++) {
            let sortedData = new
DataManager(treeObj.getTreeData()).executeLocal(new
Query().where(treeObj.fields.text, 'equal', name[j], false));
            let childData = new DataManager(newData).executeLocal(new
Query().where(treeObj.fields.parentID, 'equal',
parseInt(sortedData[0][treeObj.fields.id]), false));
            arr.push(sortedData[0]);
        }
        // Renders treeview with sorted Nodes
        changeDataSource(arr);
        treeObj.dataBind();
    }
    function changeDataSource(data) {
        treeObj.fields = {
            dataSource: data, id: 'id', text: 'name', parentID: 'pid',
hasChildren: 'hasChild'
        };
    }
    return (<div className='control-pane'>
        <div className='control-section'>
        <div className='control_wrapper'>
            /* Render TreeView */

```

```

        <TreeViewComponent fields={field} ref={(treeview) => { treeObj =
treeview; }} created={onCreate.bind(this)}
nodeExpanding={onNodeExpand.bind(this)} />
    </div>
    </div>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeExpandEventArgs } from '@syncfusion/ej2-react-
navigations';
import {enableRipple} from '@syncfusion/ej2-base';
import { DataManager, Query } from '@syncfusion/ej2-data';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let Countries: { [key: string]: Object }[] = [
        { id: 1, name: 'India', hasChild: true },
        { id: 2, pid: 1, name: 'Assam' },
        { id: 3, pid: 1, name: 'Bihar' },
        { id: 4, pid: 1, name: 'Tamil Nadu' },
        { id: 6, pid: 1, name: 'Punjab' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'France', hasChild: true },
        { id: 12, pid: 11, name: 'Pays de la Loire' },
        { id: 13, pid: 11, name: 'Aquitaine' },
        { id: 14, pid: 11, name: 'Brittany' },
        { id: 15, pid: 11, name: 'Lorraine' },
        { id: 16, name: 'Australia', hasChild: true },
        { id: 17, pid: 16, name: 'New South Wales' },
        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ]

    let field:Object={  dataSource: Countries, id: 'id', text: 'name',
parentID: 'pid', hasChildren: 'hasChild' };
    let newData: any;
    let treeObj: TreeViewComponent;
    function onNodeExpand(args: NodeExpandEventArgs): void {
        if (args.isInteracted && args.node.querySelector('li') === null){
            let id: any = parseInt(args.node.getAttribute("data-uid"));

```

```

        let childData: any = new DataManager(newData).executeLocal(new
Query().where(treeObj.fields.parentID, 'equal', id, false));
        treeObj.addNodes(childData, args.node, null)
    }
}
function onCreate(){
    newData = treeObj.fields.dataSource;
    // Selects the first level nodes alone
    let resultData = new
DataManager(treeObj.getTreeData()).executeLocal(new
Query().where(treeObj.fields.parentID, 'equal', undefined, false));
    let name = [];
    for (let i = 0; i < resultData.length; i++){
        name.push(resultData[i][treeObj.fields.text]);
    }
    name.sort();
    let arr = [];
    for (let j = 0; j < name.length; j++) {
        let sortedData = new
DataManager(treeObj.getTreeData()).executeLocal(new
Query().where(treeObj.fields.text, 'equal', name[j], false));
        let childData = new DataManager(newData).executeLocal(new
Query().where(treeObj.fields.parentID, 'equal',
parseInt(sortedData[0][treeObj.fields.id]), false));
        arr.push(sortedData[0]);
    }
    // Renders treeview with sorted Nodes
    changeDataSource(arr);
    treeObj.dataBind();
}
function changeDataSource(data: any){
    treeObj.fields = {
        dataSource: data, id: 'id', text: 'name', parentID: 'pid',
hasChildren: 'hasChild'
    }
}
return (
    <div className = 'control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                { /* Render TreeView */ }
                <TreeViewComponent fields={field} ref={(treeview) => { treeObj =
treeview as TreeViewComponent; }} created={onCreate.bind(this)}
nodeExpanding={onNodeExpand.bind(this)} />
            </div>
        </div>
    </div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Remove parent checkbox in React Treeview component

By enabling the `showCheckBox` property, you can render check box before each node of TreeView. However, some application needs to render check box in child nodes alone. In such case, you can remove the check box of the parent node by customizing the CSS.

INDEX.JSX

```
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let Countries = [
        { id: 1, name: 'India', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Assam' },
        { id: 3, pid: 1, name: 'Bihar' },
        { id: 4, pid: 1, name: 'Tamil Nadu' },
        { id: 6, pid: 1, name: 'Punjab' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'France', hasChild: true },
        { id: 12, pid: 11, name: 'Pays de la Loire' },
        { id: 13, pid: 11, name: 'Aquitaine' },
        { id: 14, pid: 11, name: 'Brittany' },
        { id: 15, pid: 11, name: 'Lorraine' },
        { id: 16, name: 'Australia', hasChild: true },
        { id: 17, pid: 16, name: 'New South Wales' },
        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ];
    let field = { dataSource: Countries, id: 'id', text: 'name', parentID: 'pid', hasChildren: 'hasChild' };
    let cssClass = "custom";
    let showCheckBox = true;
    return (
        <div className='control-pane'>
            <div className='control-section'>
                <div className='control_wrapper'>
                    { /* Render TreeView */ }
                    <TreeViewComponent fields={field} cssClass={cssClass} showCheckBox={showCheckBox}/>
                </div>
            </div>
        </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeSelectEventArgs } from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let Countries: { [key: string]: Object }[] = [
        { id: 1, name: 'India', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Assam' },
        { id: 3, pid: 1, name: 'Bihar' },
        { id: 4, pid: 1, name: 'Tamil Nadu' },
        { id: 6, pid: 1, name: 'Punjab' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'France', hasChild: true },
        { id: 12, pid: 11, name: 'Pays de la Loire' },
        { id: 13, pid: 11, name: 'Aquitaine' },
        { id: 14, pid: 11, name: 'Brittany' },
        { id: 15, pid: 11, name: 'Lorraine' },
        { id: 16, name: 'Australia', hasChild: true },
        { id: 17, pid: 16, name: 'New South Wales' },
        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ]

    let field:Object={  dataSource: Countries, id: 'id', text: 'name',
parentID: 'pid', hasChildren: 'hasChild' };
    let cssClass="custom";
    let showCheckBox: boolean = true;
    return (
        <div className = 'control-pane'>
            <div className='control-section'>
                <div className='control_wrapper'>
                    {/* Render TreeView */}
                    <TreeViewComponent fields={field} cssClass={cssClass}
showCheckBox={showCheckBox} />
                </div>
            </div>
        </div>
    )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

Get dynamic icon in React Treeview component

In TreeView component, you can get the original bound data using the `getTreeData` method. For this method, if you pass the id of the tree node, it returns the corresponding node information, or otherwise the overall tree nodes information will be returned. You can use this method to get the bound `iconCss` class in the `nodeChecking` event. Please refer to the following sample.

INDEX.JSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let treeData = [
        {
            "nodeId": "01", "nodeText": "Music", "icon": "folder",
            "expanded": true, "nodeChild": [
                { "nodeId": "01-01", "nodeText": "Gouttes.mp3", "icon":
            "audio" }
            ],
        },
        {
            "nodeId": "02", "nodeText": "Videos", "icon": "folder",
            "expanded": true, "nodeChild": [
                { "nodeId": "02-01", "nodeText": "Naturals.mp4", "icon":
            "video" },
                { "nodeId": "02-02", "nodeText": "Wild.mpeg", "icon": "video"
            }
            ]
        }
    ];
    let field = { dataSource: treeData, id: 'nodeId', text: 'nodeText',
    child: 'nodeChild', iconCss: 'icon', expanded: 'expanded' };
    let showCheckBox = true;
    let autoCheck = false;
    let treeObj;
    function onNodeCheck(args) {
        let nodeId = args.data[0].id.toString();
        // To get the iconCss
        let iconClass = treeObj.getTreeData(nodeId)[0].icon;
        alert('Icon class is ' + iconClass);
    }
    return (<div className='control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                { /* Render TreeView */ }
                <TreeViewComponent fields={field}
            nodeChecking={onNodeCheck.bind(this)} showCheckBox={showCheckBox}
            autoCheck={autoCheck} ref={(treeview) => { treeObj = treeview; }}/>
            </div>
        </div>
    </div>);
}
```



```
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeCheckEventArgs } from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let treeData: Object[] = [
        {
            "nodeId": "01", "nodeText": "Music", "icon": "folder", "expanded":
true, "nodeChild": [
                { "nodeId": "01-01", "nodeText": "Gouttes.mp3", "icon": "audio" }
            ]
        },
        {
            "nodeId": "02", "nodeText": "Videos", "icon": "folder", "expanded":
true, "nodeChild": [
                { "nodeId": "02-01", "nodeText": "Naturals.mp4", "icon": "video"
},
                { "nodeId": "02-02", "nodeText": "Wild.mpeg", "icon": "video" }
            ]
        }
    ];
    let field:Object={  dataSource: treeData, id: 'nodeId', text:
'nodeText', child: 'nodeChild', iconCss: 'icon', expanded: 'expanded' };
    let showCheckBox: boolean = true;
    let autoCheck: boolean = false;
    let treeObj: TreeViewComponent;
    function onNodeCheck(args: NodeCheckEventArgs): void {
        let nodeId = args.data[0].id.toString();
        // To get the iconCss
        let iconClass: any = treeObj.getTreeData(nodeId)[0].icon;
        alert('Icon class is ' + iconClass);
    }
    return (
        <div className = 'control-pane'>
            <div className='control-section'>
                <div className='control_wrapper'>
                    {/* Render TreeView */}
                    <TreeViewComponent fields={field}
nodeChecking={onNodeCheck.bind(this)} showCheckBox={showCheckBox}
autoCheck={autoCheck} ref={(treeview) => { treeObj = treeview as
TreeViewComponent; }}/>
                </div>
            </div>
        </div>
    )
}
```

```
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}
```

Hover multi line tree node in React Treeview component

This section demonstrates how to hover and select a multi-line tree node. Here, you can set the row height (element class: `e-fullrow`) to be the same as the row content (element class: `e-text-content`)

INDEX.JSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let hierarchicalData = [
        {
            id: 1, name: 'Web Control sWeb ControlsWeb ControlsWeb
ControlsWeb ControlsWeb ControlsWeb Controls', expanded: true,
            child: [
                {
                    id: 2, name:
'CalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCale
ndarCalendarCalendarCalendar', child: [
                        { id: 7, name: 'Constructors' },
                        { id: 8, name: 'Properties' },
                        { id: 9, name: 'Methods' },
                        { id: 10, name: 'Events' }
                    ]
                },
                {
                    id: 3, name: 'Data Grid', child: [
                        { id: 11, name: 'Constructors' },
                        { id: 12, name: 'Fields' },
                        { id: 13, name: 'Properties' },
                        { id: 14, name: 'Methods' },
                        { id: 15, name: 'Events' }
                    ]
                },
                {
                    id: 4, name: 'DropDownList', child: [
                        { id: 16, name: 'Constructors' },
                        { id: 17, name: 'Properties' },
                        { id: 18, name: 'Methods' }
                    ]
                },
                {
                    id: 5, name: 'Menu', child: [
                        { id: 19, name: 'Constructors' },
                        { id: 20, name: 'Fields' },
                        { id: 21, name: 'Properties' },
                        { id: 22, name: 'Methods' },
                        { id: 23, name: 'Events' }
                    ]
                }
            ]
        }
    ]
}
```

```

        ]
    }
}
],
{
    id: 24, name: 'Web Controls',
    child: [
        {
            id: 25, name: 'Calendar', child: [
                { id: 26, name: 'Constructors' },
                { id: 27, name: 'Properties' },
                { id: 28, name: 'Methods' },
                { id: 29, name: 'Events' }
            ]
        },
        {
            id: 30, name: 'Data Grid', child: [
                { id: 31, name: 'Constructors' },
                { id: 32, name: 'Fields' },
                { id: 33, name: 'Properties' },
                { id: 34, name: 'Methods' },
                { id: 35, name: 'Events' }
            ]
        }
    ]
}
];
let field = { dataSource: hierarchicalData, id: 'id', text: 'name',
child: 'child' };
let style = "customTree";
let treeObj;
// Sets e-fullrow to be the same as e-text-content
function setHeight(element) {
    if (treeObj.fullRowSelect) {
        if (element.classList.contains("e-treeview")) {
            element = element.querySelector(".e-node-
focus").querySelector(".e-fullrow");
        }
        else if (element.classList.contains("e-list-parent")) {
            element = element.querySelector(".e-fullrow");
        }
        else if (element.classList.value != ("e-fullrow") &&
element.closest(".e-list-item")) {
            element = element.closest(".e-list-item").querySelector(".e-
fullrow");
        }
        if (element.nextElementSibling)
            element.style.height =
element.nextElementSibling.offsetHeight + "px";
    }
}
// Triggers on node selection
function onSelect(args) {
    setHeight(args.node);
}
function created() {
    // Triggers on mouse hover/keydown event

```

```

treeObj.element.addEventListener('mouseover', (event) => {
  setHeight(event.target);
});
}
return <div className='control-pane'>
  <div className='control-section'>
    <div className='control_wrapper'>
      { /* Render TreeView */ }
      <TreeViewComponent fields={field}
created={created.bind(this)} nodeSelecting={onSelect.bind(this)}
cssClass={style} ref={(treeview) => { treeObj = treeview; }} />
    </div>
  </div>
</div>;
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```
{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeSelectEventArgs } from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let hierarchicalData: { [key: string]: Object }[] = [
        {
            id: 1, name: 'Web Control sWeb ControlsWeb ControlsWeb ControlsWeb ControlsWeb ControlsWeb Controls', expanded: true,
            child: [
                {
                    id: 2, name:
'CalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendarCalendar', child: [
                        { id: 7, name: 'Constructors' },
                        { id: 8, name: 'Properties' },
                        { id: 9, name: 'Methods' },
                        { id: 10, name: 'Events' }
                    ]
                },
                {
                    id: 3, name: 'Data Grid', child: [
                        { id: 11, name: 'Constructors' },
                        { id: 12, name: 'Fields' },
                        { id: 13, name: 'Properties' },
                        { id: 14, name: 'Methods' },
                        { id: 15, name: 'Events' }
                    ]
                }
            ],
        },
        {
            id: 4, name: 'DropDownList', child: [

```

```

        { id: 16, name: 'Constructors' },
        { id: 17, name: 'Properties' },
        { id: 18, name: 'Methods' }
    ]
},
{
    id: 5, name: 'Menu', child: [
        { id: 19, name: 'Constructors' },
        { id: 20, name: 'Fields' },
        { id: 21, name: 'Properties' },
        { id: 22, name: 'Methods' },
        { id: 23, name: 'Events' }
    ]
}
],
},
{
    id: 24, name: 'Web Controls',
    child: [
        {
            id: 25, name: 'Calendar', child: [
                { id: 26, name: 'Constructors' },
                { id: 27, name: 'Properties' },
                { id: 28, name: 'Methods' },
                { id: 29, name: 'Events' }
            ]
        },
        {
            id: 30, name: 'Data Grid', child: [
                { id: 31, name: 'Constructors' },
                { id: 32, name: 'Fields' },
                { id: 33, name: 'Properties' },
                { id: 34, name: 'Methods' },
                { id: 35, name: 'Events' }
            ]
        }
    ]
}
];
let field:Object={  dataSource: hierarchicalData , id: 'id', text:
'name', child: 'child' };
let style:string="customTree";
let treeObj: TreeViewComponent;
// Sets e-fullrow to be the same as e-text-content
function setHeight(element: any) {
    if(treeObj.fullRowSelect) {
        if(element.classList.contains("e-treeview")) {
            element = element.querySelector(".e-node-focus").querySelector(".e-
fullrow");
        }
        else if(element.classList.contains("e-list-parent")) {
            element = element.querySelector(".e-fullrow");
        }
        else if(element.classList.value != ("e-fullrow") &&
element.closest(".e-list-item")) {
            element = element.closest(".e-list-item").querySelector(".e-
fullrow");

```

```

    }
    if(element.nextElementSibling)
        element.style.height = element.nextElementSibling.offsetHeight
+ "px";
    }
    }
    // Triggers on node selection
    function onSelect(args: NodeSelectEventArgs): void {
        setHeight(args.node);
    }
    function created(){
        // Triggers on mouse hover/keydown event
        treeObj.element.addEventListener('mouseover', (event: any)=>{
            setHeight(event.target);
        });
    }
    return (
        <div className = 'control-pane'>
            <div className='control-section'>
                <div className='control_wrapper'>
                    { /* Render TreeView */ }
                    <TreeViewComponent fields={field}
created={created.bind(this)} nodeSelecting={onSelect.bind(this)}
cssClass={style} ref={(treeview) => { treeObj = treeview as
TreeViewComponent; }} />
                </div>
            </div>
        </div>
    )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Select one child in React Treeview component

TreeView allows both single and multiple selections. If your application needs to select one child at a time under one specific parent, refer to the following example. Here, you can achieve this in the `nodeSelecting` event of TreeView. However, you can reset the selected child and make another selection by pressing Ctrl + selected nodes.

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
function App() {
    // Self-referential list data source for TreeView component
    let localData = [
        { id: 1, name: 'Parent 1', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Child 1' },
        { id: 3, pid: 1, name: 'Child 2' },
        { id: 4, pid: 1, name: 'Child 3' },
        { id: 7, name: 'Parent 2', hasChild: true, expanded: true },
        { id: 8, pid: 7, name: 'Child 1' },
    ];
}

```

```

        { id: 9, pid: 7, name: 'Child 2' },
        { id: 10, pid: 7, name: 'Child 3' },
    ];
    let field = { dataSource: localData, id: 'id', parentID: 'pid', text:
'name', hasChildren: 'hasChild' };
    let allowMultiSelection = true;
    let loadOnDemand = false;
    let parent;
    let child;
    let count = false;
    let childCount = false;
    let treeObj;
    // Triggers when you select any node
    function onNodeSelecting(args) {
        let id = args.nodeData.parentID;
        if (!count) {
            parent = id;
            count = true;
        }
        if (!childCount) {
            child = args.nodeData.id;
            childCount = true;
        }
        if (id !== null && id === parent) {
            let element = treeObj.element.querySelector('[data-uid="' + id +
'"]');
            let liElements = element.querySelectorAll('ul li');
            for (let i = 0; i < liElements.length; i++) {
                let nodeData = treeObj.getNode(liElements[i]);
                if (nodeData.selected && args.action === "select" && child
!== args.nodeData.id) {
                    args.cancel = true;
                }
                // For unselect the selectedNodes
                else if (args.action === "un-select" && child ===
args.nodeData.id) {
                    childCount = false;
                    child = null;
                    parent = null;
                    count = false;
                }
            }
        }
        else if (id !== parent && id !== null) {
            if (args.action === "select") {
                args.cancel = true;
            }
        }
        else if (id === null) {
            childCount = false;
            child = null;
            parent = null;
            count = false;
        }
    }
    return (<div className='control-pane'>
        <div className='control-section'>

```



```

        <div className='control_wrapper'>
            /* Render TreeView */
            <TreeViewComponent fields={field} loadOnDemand={loadOnDemand}
nodeSelecting={onNodeSelecting.bind(this) }
allowMultiSelection={allowMultiSelection} ref={(treeview) => { treeObj =
treeview; }}/>
        </div>
    </div>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeSelectEventArgs } from '@syncfusion/ej2-react-
navigations';
function App() {

    // Self-referential list data source for TreeView component
    let localData: { [key: string]: Object }[] = [
        { id: 1, name: 'Parent 1', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Child 1' },
        { id: 3, pid: 1, name: 'Child 2' },
        { id: 4, pid: 1, name: 'Child 3' },
        { id: 7, name: 'Parent 2', hasChild: true, expanded: true },
        { id: 8, pid: 7, name: 'Child 1' },
        { id: 9, pid: 7, name: 'Child 2' },
        { id: 10, pid: 7, name: 'Child 3' },
    ];
    let field: Object = { dataSource: localData, id: 'id', parentID: 'pid',
text: 'name', hasChildren: 'hasChild' };
    let allowMultiSelection: boolean = true;
    let loadOnDemand: boolean = false;
    let parent: any; let child: any;
    let count: boolean = false;
    let childCount: boolean = false;
    let treeObj: TreeViewComponent;
    // Triggers when you select any node
    function onNodeSelecting(args: NodeSelectEventArgs): void {
        let id: any = args.nodeData.parentID;
        if (!count) {
            parent = id;
            count = true;
        }
        if (!childCount){
            child = args.nodeData.id;
            childCount = true
        }
        if (id != null && id === parent) {
            let element: HTMLElement = treeObj.element.querySelector('[data-uid="'
+ id + '"]');

```

```

    let liElements: any = element.querySelectorAll('ul li');
    for (let i: number = 0; i < liElements.length; i++) {
        let nodeData: any = treeObj.getNode(liElements[i]);
        if (nodeData.selected && args.action === "select" && child !==
args.nodeData.id) {
            args.cancel = true;
        }
        // For unselect the selectedNodes
        else if (args.action === "un-select" && child === args.nodeData.id)
{
            childCount = false;
            child = null;
            parent = null;
            count = false;
        }
    }
    } else if (id !== parent && id !== null) {
        if(args.action == "select"){
            args.cancel = true
        }
    } else if (id === null){
        childCount = false;
        child = null;
        parent = null;
        count = false
    }
    }
    return (
        <div className = 'control-pane'>
            <div className='control-section'>
                <div className='control_wrapper'>
                    { /* Render TreeView */}
                    <TreeViewComponent fields={field} loadOnDemand={loadOnDemand}
nodeSelecting={onNodeSelecting.bind(this)}
allowMultiSelection={allowMultiSelection} ref={(treeview) => { treeObj =
treeview as TreeViewComponent; }}/>
                </div>
            </div>
        </div>
    )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Get all child nodes in React Treeview component

This section demonstrates how to get the child nodes from corresponding parent ID. Using the `getNode` method, you can get the node details of TreeView. Please refer to the following sample.

INDEX.JSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';

```

```

enableRipple(true);
function App() {
  // Data source for TreeView component
  let data = [
    {
      code: "AF", name: "Africa", countries: [
        { code: "NGA", name: "Nigeria" },
        { code: "EGY", name: "Egypt" },
        { code: "ZAF", name: "South Africa" }
      ]
    },
    {
      code: "AS", name: "Asia", countries: [
        { code: "CHN", name: "China" },
        { code: "IND", name: "India", countries: [
          { code: "TN", name: "TamilNadu" }
        ] },
        { code: "JPN", name: "Japan" }
      ]
    },
    {
      code: "EU", name: "Europe", countries: [
        { code: "DNK", name: "Denmark" },
        { code: "FIN", name: "Finland" },
        { code: "AUT", name: "Austria" }
      ]
    },
    {
      code: "NA", name: "North America", countries: [
        { code: "USA", name: "United States of America" },
        { code: "CUB", name: "Cuba" },
        { code: "MEX", name: "Mexico" }
      ]
    },
    {
      code: "SA", name: "South America", countries: [
        { code: "BR", name: "Brazil" },
        { code: "COL", name: "Colombia" },
        { code: "ARG", name: "Argentina" }
      ]
    }
  ];
  let field = { dataSource: data, id: 'code', text: 'name', child:
'countries' };
  let loadOnDemand = false;
  let treeObj;
  function onCreate() {
    let proxy = treeObj;
    document.getElementById("btn").addEventListener("click", (event) => {
      let id = document.getElementById('Nodes');
      let element = proxy.element.querySelector('[data-uid="' +
id.value + '"]');
      // Gets the child Element
      let liElements = element.querySelectorAll('ul li');
      let arr = [];
      for (let i = 0; i < liElements.length; i++) {
        let nodeData = proxy.getNode(liElements[i]);

```

```

        arr.push(nodeData);
    }
    alert(JSON.stringify(arr));
});
}
return (<div className='control-pane'>
    <div className='control-section'>
        <div className='control_wrapper'>
            /* Render TreeView */
            <TreeViewComponent fields={field} ref={(treeview) => {
treeObj = treeview; }} loadOnDemand={loadOnDemand}
created={onCreate.bind(this)} />
        </div>
    </div>
</div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, NodeSelectEventArgs} from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let data: { [key: string]: Object }[] = [
        {
            code: "AF", name: "Africa", countries: [
                { code: "NGA", name: "Nigeria" },
                { code: "EGY", name: "Egypt" },
                { code: "ZAF", name: "South Africa" }
            ]
        },
        {
            code: "AS", name: "Asia", countries: [
                { code: "CHN", name: "China" },
                { code: "IND", name: "India", countries: [
                    { code: "TN", name: "TamilNadu" }
                ] },
                { code: "JPN", name: "Japan" }
            ]
        },
        {
            code: "EU", name: "Europe", countries: [
                { code: "DNK", name: "Denmark" },
                { code: "FIN", name: "Finland" },
                { code: "AUT", name: "Austria" }
            ]
        },
    ],
    {

```

```

        code: "NA", name: "North America", countries: [
            { code: "USA", name: "United States of America" },
            { code: "CUB", name: "Cuba" },
            { code: "MEX", name: "Mexico" }
        ]
    },
    {
        code: "SA", name: "South America", countries: [
            { code: "BR", name: "Brazil" },
            { code: "COL", name: "Colombia" },
            { code: "ARG", name: "Argentina" }
        ]
    },
];
let field:Object={  dataSource: data, id: 'code', text: 'name', child:
'countries' };
let loadOnDemand: Boolean= false;
let treeObj: TreeViewComponent;
function onCreate(): void {
    let proxy = treeObj;
    document.getElementById("btn").addEventListener("click", (event)=>{
        let id: any =document.getElementById('Nodes') as HTMLInputElement
        let element= proxy.element.querySelector('[data-uid="'+ id.value
+ '"]');
        // Gets the child Element
        let liElements : any= element.querySelectorAll('ul li');
        let arr : any= [];
        for (let i = 0; i < liElements.length; i++) {
            let nodeData= proxy.getNode(liElements[i]);
            arr.push(nodeData);
        }
        alert(JSON.stringify(arr));
    });
}
return (
    <div className = 'control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                { /* Render TreeView */ }
                <TreeViewComponent fields={field} ref={(treeview) => {
treeObj = treeview as TreeViewComponent; }} loadOnDemand={loadOnDemand}
created={onCreate.bind(this)} />
            </div>
        </div>
    </div>
)
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));
{% endraw %}

```

Disable checkbox of the tree node in React Treeview component

You can disable the check box alone in TreeView instead of disabling the whole node. You need to include the `e-checkbox-disabled` class into the check box element using the `drawNode` event. Please refer to the following sample to disable the check box of the tree nodes.

INDEX.JSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import { TreeViewComponent } from '@syncfusion/ej2-react-navigations';
import { enableRipple } from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let Countries = [
        { id: 1, name: 'India', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Assam' },
        { id: 3, pid: 1, name: 'Bihar' },
        { id: 4, pid: 1, name: 'Tamil Nadu' },
        { id: 6, pid: 1, name: 'Punjab' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'France', hasChild: true },
        { id: 12, pid: 11, name: 'Pays de la Loire' },
        { id: 13, pid: 11, name: 'Aquitaine' },
        { id: 14, pid: 11, name: 'Brittany' },
        { id: 15, pid: 11, name: 'Lorraine' },
        { id: 16, name: 'Australia', hasChild: true },
        { id: 17, pid: 16, name: 'New South Wales' },
        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ];
    let field = { dataSource: Countries, id: 'id', text: 'name', parentID:
'pid', hasChildren: 'hasChild' };
    let showCheckBox = true;
    function drawNode(args) {
        let ele = args.node.querySelector('.e-checkbox-wrapper');
        ele.classList.add('e-checkbox-disabled');
    }
    return (<div className='control-pane'>
        <div className='control-section'>
            <div className='control_wrapper'>
                /* Render TreeView */
                <TreeViewComponent fields={field} showCheckBox={showCheckBox}
drawNode={drawNode.bind(this)} />
            </div>
        </div>
    </div>);
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```

INDEX.TSX

```

import * as ReactDOM from 'react-dom';
import * as React from 'react';
import {TreeViewComponent, DrawNodeEventArgs} from '@syncfusion/ej2-react-navigations';
import {enableRipple} from '@syncfusion/ej2-base';
enableRipple(true);
function App() {
    // Data source for TreeView component
    let Countries: { [key: string]: Object }[] = [
        { id: 1, name: 'India', hasChild: true, expanded: true },
        { id: 2, pid: 1, name: 'Assam' },
        { id: 3, pid: 1, name: 'Bihar' },
        { id: 4, pid: 1, name: 'Tamil Nadu' },
        { id: 6, pid: 1, name: 'Punjab' },
        { id: 7, name: 'Brazil', hasChild: true },
        { id: 8, pid: 7, name: 'Paraná' },
        { id: 9, pid: 7, name: 'Ceará' },
        { id: 10, pid: 7, name: 'Acre' },
        { id: 11, name: 'France', hasChild: true },
        { id: 12, pid: 11, name: 'Pays de la Loire' },
        { id: 13, pid: 11, name: 'Aquitaine' },
        { id: 14, pid: 11, name: 'Brittany' },
        { id: 15, pid: 11, name: 'Lorraine' },
        { id: 16, name: 'Australia', hasChild: true },
        { id: 17, pid: 16, name: 'New South Wales' },
        { id: 18, pid: 16, name: 'Victoria' },
        { id: 19, pid: 16, name: 'South Australia' },
        { id: 20, pid: 16, name: 'Western Australia' },
        { id: 21, name: 'China', hasChild: true },
        { id: 22, pid: 21, name: 'Guangzhou' },
        { id: 23, pid: 21, name: 'Shanghai' },
        { id: 24, pid: 21, name: 'Beijing' },
        { id: 25, pid: 21, name: 'Shantou' }
    ]
    let field:Object={  dataSource: Countries, id: 'id', text: 'name',
parentID: 'pid', hasChildren: 'hasChild' };
    let showCheckBox: boolean=true;
    function drawNode(args: DrawNodeEventArgs): void {
        let ele: HTMLElement = args.node.querySelector('.e-checkbox-wrapper');
        ele.classList.add('e-checkbox-disabled');
    }
    return (
        <div className = 'control-pane'>
            <div className='control-section'>
                <div className='control_wrapper'>
                    { /* Render TreeView */ }
                    <TreeViewComponent fields={field} showCheckBox={showCheckBox}
drawNode={drawNode.bind(this)} />
                </div>
            </div>
        </div>
    )
}
export default App;
ReactDOM.render(<App />, document.getElementById('sample'));

```


Ej1 api migration in React Treeview component

This article describes the API migration process of TreeView component from Essential JS 1 to Essential JS 2.

Add nodes

{% raw %}

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Add node | **Method:** `addNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.addNode("Node", "#book");` | **Method:** `addNodes`
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`var object = [{ id: "temp", name: "New node" }, { id: "new", name: "New node 1" }];`
`tree.addNodes(object, "book");` |

| Triggers before adding node | **Event:** `beforeAdd`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforeAdd: this.beforeAdd});`
`beforeAdd: function(){} | Not Applicable |`

| Adding node after a particular node | **Method:**
`insertAfter`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.insertAfter("node", "book");` | **Can be achieved using**
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`var object = [{ id: "1", name: "node" }];`
`var child = tree.element.querySelector("[data-uid="book"]);`
`var parent = child.parentElement.closest('.e-list-item');`
`var level = parseInt(parent.getAttribute('aria-level'))+1;`
`var childNodes = Array.from(parent.querySelectorAll('.e-list-item.e-level-'+level));`
`var index = childNodes.indexOf(child);`
`tree.addNodes(object, "book", index+1);` |

| Adding node before a particular node | **Method:**
`insertBefore`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.insertBefore("node", "book");` | **Can be achieved using**
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`var object = [{ id: "1", name: "node" }];`
`var child = tree.element.querySelector("[data-uid="book"]);`
`var parent = child.parentElement.closest('.e-list-item');`
`var level = parseInt(parent.getAttribute('aria-level'))+1;`
`var childNodes = Array.from(parent.querySelectorAll('.e-list-item.e-level-'+level));`
`var index = childNodes.indexOf(child);`
`tree.addNodes(object, "book", index-1);` |

| Triggers when node is added successfully | **Event:**
`nodeAdd`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeAdd: this.nodeAdd});`
`nodeAdd: function(){} | Event: dataSourceChanged`
`<TreeViewComponent fields={this.field} dataSourceChanged={this.dataSourceChanged.bind(this)} />`
`dataSourceChanged(): void {} |`

Common

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Keyboard Navigation | **Property:**

allowKeyboardNavigation
`allowKeyboardNavigation: false` | **Can be achieved using**
`<TreeViewComponent fields={this.field} keyPress={this.keyPress.bind(this)} />`
Script
`keyPress(args): void {args.cancel = true;}` |

| Triggers before node is cut | **Event:** *beforeCut*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforeCut: this.beforeCut});`
`beforeCut: function(){} | Not Applicable |`

| Triggers before node is deleted | **Event:** *beforeDelete*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforeDelete: this.beforeDelete});`
`beforeDelete: function(){} | Not Applicable |`

| Triggers before loading nodes | **Event:** *beforeLoad*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforeLoad: this.beforeLoad});`
`beforeLoad: function(){} | Not Applicable |`

| Triggers before node is pasted | **Event:** *beforePaste*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforePaste: this.beforePaste});`
`beforePaste: function(){} | Not Applicable |`

| Triggers when Treeview is created | **Event:** *create*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, create: this.onCreate});`
`onCreate: function(){} | Event: created
<TreeViewComponent fields={this.field} created={this.onCreated.bind(this)} />
onCreated(): void {} |`

| Css class | **Property:** *cssClass*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, cssClass: "custom"});` | **Property:** *cssClass*
`<TreeViewComponent fields={this.field} cssClass={'custom'} /> |`

| Triggers when Treeview is destroyed | **Event:** *destroy*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, destroy: this.onDestroy});`
`onDestroy: function(){} | Event: destroyed
<TreeViewComponent fields={this.field} destroyed={this.onDestroyed.bind(this)} />
onDestroyed(): void {} |`

| Destroy Treeview control | **Method:** *destroy*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.destroy();` | **Method:** *destroy*
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`tree.destroy(); |`

| Disable Node | **Method:** *disableNode*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.disableNode("1");` | **Method:** *disableNodes*
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`tree.disableNodes(["1", "2"]); |`

| Enable Animation | **Property:** `enableAnimation`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, enableAnimation: false});` | **Property:** `animation`
`<TreeViewComponent fields={this.field}/>` | `public tree: TreeViewComponent;`
`tree.animation.expand.duration=0` | `tree.animation.collapse.duration=0` |

| Control state | **Property:** `enabled`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, enabled: false});` | Not Applicable |

| Enable Node | **Method:** `enableNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.enableNode("1");` | **Method:** `enableNodes`
`<TreeViewComponent fields={this.field}/>` | `public tree: TreeViewComponent;`
`tree.enableNodes(["1", "2"]);` |

| Persistence | **Property:** `enablePersistence`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, enablePersistence: true});` | **Property:** `enablePersistence`
`<TreeViewComponent enablePersistence={true} fields={this.field}/>` |

| Right to Left | **Property:** `enableRTL`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, enableRTL: true});` | **Property:** `enableRtl`
`<TreeViewComponent enableRtl={true} fields={this.field}/>` |

| Ensure visibility | **Method:** `ensureVisible`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.ensureVisible("1");` | **Method:** `ensureVisible`
`<TreeViewComponent fields={this.field}/>` | `public tree: TreeViewComponent;`
`tree.ensureVisible("1");` |

| Mapping fields | **Property:** `fields`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var fields = {`
`id: "id", text: "text", parentId: "parent", dataSource: this.localData,`
`isChecked: "checked", selected: "selected", spriteCssClass: "spriteImage",`
`imageUrl: "imageUrl", htmlAttribute: "nodeProperty", linkAttribute: "linkProperty",`
`imageAttribute: "imageProperty"`
`>}` | **Property:** `fields`
`<TreeViewComponent fields={this.field}/>` | `public field: Object = {`
`dataSource: this.localData, id: 'id', parentId: 'pid', text: 'name', hasChildren: 'hasChild',`
`expanded: 'expanded', htmlAttribute: 'htmlAttributes', imageAttribute: 'img', imageUrl:`
`'imageUrl', isChecked: 'checked', linkAttribute: 'linkAttribute', query: null, selected: 'selected',`
`spriteCssClass: 'custom', tableName: null }` |

| Get child nodes | **Method:** `getChildren`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getChildren("1");` | **Can be achieved using,**
`<TreeViewComponent fields={this.field}/>` | `public tree: TreeViewComponent;`
`var parent=tree.element.querySelector('[data-uid="1"]')`
`console.log(parent.querySelector('.e-list-item'))` |

| Get node | **Method:** `getNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getNode("1");` | **Method:** `getNode`
`<TreeViewComponent fields={this.field}/>` | `public tree: TreeViewComponent;`
`tree.getNode("1");` |

| Get node by index | **Method:** *getNodeByIndex*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getNodeByIndex(3);` | **Can be achieved using,**
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`var nodes=tree.element.querySelectorAll('.e-list-item')`
`console.log(nodes[3]);` |

| Get node count | **Method:** *getNodeCount*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getNodeCount();` | **Can be achieved using,**
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`var nodes=tree.element.querySelectorAll('.e-list-item')`
`console.log("Node count is " + nodes.length);` |

| Get node index | **Method:** *getNodeIndex*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getNodeIndex("book");` | **Can be achieved using,**
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`var nodes=tree.element.querySelectorAll('.e-list-item')`
`var node = tree.element.querySelector('[data-uid="' + "book" + "']');`
`while(i<nodes.length)`
`{if(nodes[i] === node) {console.log("Node index is " + i);break;}}`
`i++` |

| Get parent of node | **Method:** *getParent*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getParent("book");` | **Can be achieved using,**
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`var child=tree.element.querySelector('[data-uid="' + "book" + "']');`
`var parent = child.parentNode.closest('.e-list-item')`
`console.log(parent)` |

| Get tree node text | **Method:** *getText*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getText("1");` | **Can be achieved using,**
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`var nodeText =tree.getNode("1")['text']`
`console.log(nodeText)` |

| Get updated datasource | **Method:** *getTreeData*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getTreeData();` | **Method:** *getTreeData*
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`tree.getTreeData();` |

| Get visible nodes | **Method:** *getVisibleNodes*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getVisibleNodes();` | Not Applicable |

| Height of Treeview control | **Property:** *height*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, height: "400px"});` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} cssClass={'custom'}>`
`<Css>.e-treeview.custom{height: 400px;`
`}` |

| Checking for child nodes | **Method:** *hasChildNode*
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.hasChildNode("book");` |

```

/>treeObj.hasChildNode("book"); | Can be achieved using,<br/><br/><TreeViewComponent
fields={this.field}/><br /><br />public tree: TreeViewComponent;<br/>var
parent=tree.element.querySelector("[data-uid="book"]")<br/>if (parent.querySelector('.e-list-
item') !== null) {<br/>console.log("Has child node")<br/>} |

```

| Hide all nodes | **Method:** *hide*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.hide(); | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.element.querySelector('.e-list-parent').style.display="none" |

| Hide node | **Method:** *hideNode*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.hideNode("book"); | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.element.querySelector("[data-uid="book"]").style.display="none" |

| HTML Attributes | **Property:** *htmlAttributes*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, htmlAttributes: htmlAttr});
var htmlAttr = {name: "treeview"};
 | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.element.classList.add("htmlAttr") |

| To check if child nodes are loaded | **Method:** *isChildLoaded*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.isChildLoaded("book"); | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
var parent=tree.element.querySelector("[data-uid="book"]")
if (parent.querySelector('.e-list-item') !== null) {
console.log("Child is loaded")
} |

| To check if node is disabled | **Method:** *isDisabled*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.isDisabled("book"); | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
var node=tree.element.querySelector("[data-uid="book"]")
if (node.classList.contains('e-disable') === true) {
console.log("Node is disabled")
} |

| To check if node exists in Treeview | **Method:** *isExist*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.isExist("book"); | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
if (tree.getNode('book')['text']) !== "") {
console.log("Node exists")
} |

| To check if node is visible | **Method:** *isVisible*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.isVisible("book"); | **Can be achieved using**,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
if (tree.element.querySelector("[data-uid="book"]").style.display !== "none"){
console.log("Node is visible")
} |

| Triggers on key press | **Event:** `keyPress`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, keyPress: this.onKeyPress});`
`onKeyPress: function(){} | Event: keyPress`
`<TreeViewComponent fields={this.field} keyPress={this.onKeyPress.bind(this)} />`
`onKeyPress(): void {} |`

| Load Treeview nodes from particular URI | **Method:**
`loadData`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.loadData("childData", "book"); | Can be achieved using,`
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`var dataManager = new DataManager {`
`Url = "/FileContent/rootNode",`
`Adaptor = "UrlAdaptor",`
`CrossDomain = true};`
`dataManager.executeQuery(new ej.data.Query().take(8).then((e) => { var childData = e.result;`
`tree.addNodes(childData, "book")`
`}); |`

| Triggers when data load fails | **Event:** `loadError`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, loadError: this.loadError});`
`loadError: function(){} | Can be achieved using,`
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`var dataManager = new DataManager {`
`Url = "/FileContent/rootNode",`
`Adaptor = "UrlAdaptor",`
`CrossDomain = true};`
`dataManager.executeQuery(new ej.data.Query().take(8).error((e) => { console.log("Data load failed")`
`}); |`

| Load on demand | **Property:** `loadOnDemand`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, loadOnDemand: true});`
Property:
`loadOnDemand`
`<TreeViewComponent fields={this.field} loadOnDemand={false}>`
Treeview is rendered in load on demand by default |

| Triggers when data load is success | **Event:**
`loadSuccess`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, loadSuccess: this.loadSuccess});`
`loadSuccess: function(){}<var treeObj = $("#tree").data("ejTreeView");`
`treeObj.loadData("childData", "book"); | Can be achieved using,`
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`var dataManager = new DataManager {`
`Url = "/FileContent/rootNode",`
`Adaptor = "UrlAdaptor",`
`CrossDomain = true};`
`dataManager.executeQuery(new ej.data.Query().take(8).then((e) => { console.log("Data loaded successfully")`
`}); |`

| To move node | **Method:** `moveNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.moveNode("book", "art"); | Method: moveNodes`
`<TreeViewComponent fields={this.field} />`
`public tree: TreeViewComponent;`
`tree.moveNodes(["book", "art"]); |`

| Triggers when node is clicked successfully | **Event:**
`nodeClick`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeClick: this.nodeClick});`
`nodeClick: function(){} | Event: nodeClicked`
`<TreeViewComponent fields={this.field} nodeClicked={this.onNodeClicked.bind(this)} />`
`onNodeClicked(): void {} |`

| Triggers when node is cut successfully | **Event:**

`nodeCut

React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeCut: this.nodeCut});
nodeCut: function(){} | Not Applicable |`

| Triggers when node is deleted successfully | **Event:**

`nodeDelete

React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeDelete: this.nodeDelete});
nodeDelete: function(){} | Event:`

`dataSourceChanged

<TreeViewComponent fields={this.field}`

`dataSourceChanged={this.dataSourceChanged.bind(this)}/>

dataSourceChanged(): void {} |`

| Triggers when node is pasted successfully | **Event:**

`nodePaste

React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodePaste: this.nodePaste});
nodePaste: function(){} | Not Applicable |`

| Triggers when nodes are loaded successfully | **Event:**

`ready

React.createElement(EJ.TreeView, {id: "tree", fields: fields, ready: this.onReady});
onReady: function(){} | Event: dataBound

<TreeViewComponent fields={this.field} dataBound={this.dataBound.bind(this)}/>

dataBound(): void {} |`

| Refresh Treeview control | **Method:** `refresh

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = $("#tree").data("ejTreeView");
treeObj.refresh(); | Not Applicable |`

| To show all nodes | **Method:** `show

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = $("#tree").data("ejTreeView");
treeObj.show(); | Can be achieved using,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.element.querySelector('.e-list-parent').style.display="block" |`

| Show node | **Method:** `showNode

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = $("#tree").data("ejTreeView");
treeObj.showNode("book"); | Can be achieved using,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.element.querySelector('[data-uid="book"]').style.display="block" |`

| Remove all Treeview nodes | **Method:** `removeAll

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = $("#tree").data("ejTreeView");
treeObj.removeAll(); | Can be achieved using,

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.removeNodes([treeObj.element.querySelector('.e-list-parent')]) |`

| Remove Treeview node | **Method:** `removeNode

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = $("#tree").data("ejTreeView");
treeObj.removeNode("book"); | Method: removeNodes

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
tree.removeNodes("book"); |`

| Sort order | **Property:** `sortSettings

React.createElement(EJ.TreeView, {id: "tree", fields: fields, sortSettings: sortSettings});
var sortSettings = { allowSorting: true, sortOrder:`

"Descending" } | **Property:** `sortOrder`
`<TreeViewComponent sortOrder='Descending' fields={this.field}/>` |

| Update node text | **Method:** `updateText`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.updateText("book", "text");` | **Method:** `updateNode`
`<TreeViewComponent fields={this.field}/>`
`public tree: TreeViewComponent;`
`tree.updateNode("book", "text");` |

| Width of Treeview control | **Property:** `width`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, width: "300px"});` | **Can be achieved using,** `<TreeViewComponent cssClass='custom' fields={this.field}/>`
`Css`
`.e-treeview.custom{width: 300px;}` |

CheckBox

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Prevent auto-check of child and parent | **Property:** `autoCheck`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true, autoCheck: false});` | **Property:** `autoCheck`
`<TreeViewComponent fields={this.field} autoCheck={false} showCheckBox={true}/>` |

| Prevent indeterminate state in parent node | **Property:** `autoCheckParentNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true, autoCheckParentNode: false});` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} autoCheck={false} nodeChecked={this.nodeChecked.bind(this) showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`nodeChecked(args): void {`
`var child = tree.element.querySelector('[data-uid="' + args.data[0]['id'] + "']);`
`var checkNodes = [];`
`var element = child.parentNode;`
`while ((element !== null || element !== undefined) && !element.parentNode.classList.contains('e-treeview')) {`
`element = element.parentNode;`
`var id = element.getAttribute('data-uid');`
`if (id !== null) checkNodes.push(element.getAttribute('data-uid'));`
`if (child.querySelector('.e-list-item') !== null && args.isInteracted === true && args.action === 'check') {`
`tree.autoCheck = true;`
`tree.checkAll(child.getAttribute('data-uid'));`
`} else if (child.querySelector('.e-list-item') !== null && args.isInteracted === true && args.action === 'uncheck') {`
`tree.autoCheck = true;`
`tree.uncheckAll(child.getAttribute('data-uid'));`
`}`
`tree.autoCheck = false;`
`if (args.action === 'check') {`
`tree.checkAll(checkNodes);`
`} else if (args.action === 'uncheck' && child.parentNode.querySelector('.e-check') === null) {`
`tree.uncheckAll(checkNodes);`
`}`
`}` |

| Check all nodes | **Method:** `checkAll`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.checkAll();` | **Method:** `checkAll`
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`tree.checkAll();` |

| Check node | **Method:** `checkNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.checkNode("book");` | **Method:** `checkAll`
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`tree.checkAll("book");` |

| Set checkednodes | **Property:** `checkedNodes`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true, checkedNodes: ['2', '8', '12']});` | **Property:** `checkedNodes`
`<TreeViewComponent fields={this.field} checkedNodes=['3', '9', '13'] showCheckBox={true}/>` |

| Get checked nodes | **Method:** `getCheckedNodes`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getCheckedNodes();` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`var check=tree.getAllCheckedNodes();`
`var i=0;`
`var checkedNodes;`
`while(i<check.length)`
`{`
`checkedNodes.push(treeObj.element.querySelector('[data-uid="'+ checkedNodes[i] +`
`"]);`
`i++;`
`}`
`console.log(checkedNodes)` |

| Get checked nodes index | **Method:** `getCheckedNodesIndex`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.getCheckedNodesIndex();` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`var nodes=tree.element.querySelectorAll('e-list-item');`
`var nodeIndex;`
`while(i<nodes.length) {`
`if(nodes[i].classList.contains('e-check'))`
`{nodeIndex.push(i);`
`i++;`
`}`
`console.log(nodeIndex)` |

| To check if nodes are checked | **Method:** `isNodeChecked`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.isNodeChecked("book");` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`if (tree.getNode("book")['isChecked'] === true) {`
`console.log("Node is checked")`
`}` |

| Triggers when node is checked successfully | **Event:** `nodeCheck`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true, nodeCheck: this.nodeCheck});`
`nodeCheck: function(){} |` **Event:** `nodeChecked`
`<TreeViewComponent fields={this.field} showCheckBox={true} nodeChecked={this.nodeChecked.bind(this)}/>`
`nodeChecked(args): void {`
`(args.action == "check") }` |

| Checkbox support | **Property:** `showCheckbox`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});` | **Property:** `showCheckBox`
`<TreeViewComponent fields={this.field} showCheckBox={true}/>` |

| To uncheck all nodes | **Method:** `unCheckAll`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.unCheckAll();` | **Method:** `uncheckAll`
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`tree.uncheckAll();` |

| To uncheck node | **Method:** `uncheckNode`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.uncheckNode("book");` | **Method:** `uncheckAll`
`<TreeViewComponent fields={this.field} showCheckBox={true}/>`
`public tree: TreeViewComponent;`
`tree.uncheckAll(["book"]);` |

| Triggers when node is unchecked successfully | **Event:** `nodeUncheck`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, showCheckbox: true, nodeUncheck: this.nodeUncheck});`
`nodeUncheck: function(){} |`
Event: `nodeChecked`
`<TreeViewComponent fields={this.field} showCheckBox={true} nodeChecked={this.nodeChecked.bind(this)}/>`
`nodeChecked(args): void {`
`if (args.action == "un-check") {}` |

| Triggers before nodes are checked/ unchecked | Not Applicable | **Event:** `nodeChecking`
`<TreeViewComponent fields={this.field} showCheckBox={true} nodeChecking={this.nodeChecking.bind(this)}/>`
`nodeChecking(): void {`
`if (args.action == "check") {}` |

Drag and Drop

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Drag and drop | **Property:** `allowDragAndDrop`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowDragAndDrop: true});` | **Property:** `allowDragAndDrop`
`<TreeViewComponent fields={this.field} allowDragAndDrop={true}/>` |

| Prevent Drag and drop to another Treeview | **Property:** `allowDragAndDropAcrossControl`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowDragAndDrop: true, allowDragAndDropAcrossControl:true});` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} allowDragAndDrop={true} nodeDragStop={this.nodeDragStop.bind(this)}/>`
`nodeDragStop(args): void {`
`if (args.draggedParentNode.closest('.e-treeview') !== args.dropTarget.closest('.e-treeview'))`
`{args.cancel = true;}` |

| Prevent sibling drop | **Property:** `allowDropSibling`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowDragAndDrop: true, allowDropSibling:false});` | **Can be achieved using,**
`<TreeViewComponent fields={this.field} allowDragAndDrop={true} nodeDragStop={this.nodeDragStop.bind(this)}/>`
`nodeDragStop(args): void {`
`if (args.dropIndicator === "e-drop-next") {args.cancel = true;}` |

| Prevent child drop | **Property:** `allowDropChild`
`React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowDragAndDrop: true, allowDropChild:false});` | **Can be achieved**

```
using,<br/><br/><TreeViewComponent fields={this.field} allowDragAndDrop={true}
nodeDragStop={this.nodeDragStop.bind(this)}/><br /><br />nodeDragStop(args): void
{<br/>if(args.dropIndicator == "e-drop-in") {<br/>args.cancel = true;<br/>}} |
```

```
| Triggers when node is dragged | Event: nodeDrag<br/><br/>React.createElement(EJ.TreeView, {id:
"tree", fields: fields, allowDragAndDrop: true, nodeDrag: this.nodeDrag});<br />nodeDrag:
function(){} | Event: nodeDragging<br/><br/><TreeViewComponent fields={this.field}
allowDragAndDrop={true} nodeDragging={this.nodeDragging.bind(this)}/><br /><br
/>nodeDragging(): void {} |
```

```
| Triggers when node drag is started successfully | Event:
nodeDragStart<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
allowDragAndDrop: true, nodeDragStart: this.nodeDragStart});<br />nodeDragStart: function(){}
| Event: nodeDragStart<br/><br/><TreeViewComponent fields={this.field}
allowDragAndDrop={true} nodeDragStart={this.nodeDragStart.bind(this)}/><br /><br
/>nodeDragStart(): void {} |
```

```
| Triggers before dragged node drag is stopped | Event:
nodeDragStop<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
allowDragAndDrop: true, nodeDragStop: this.nodeDragStop});<br />nodeDragStop: function(){}
| Event: nodeDragStop<br/><br/><TreeViewComponent fields={this.field}
allowDragAndDrop={true} nodeDragStop={this.nodeDragStop.bind(this)}/><br /><br
/>nodeDragStop(): void {} |
```

```
| Triggers when node is dropped successfully | Event:
nodeDropped<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
allowDragAndDrop: true, nodeDropped: this.nodeDropped});<br />nodeDropped: function(){} |
Event: nodeDropped<br/><br/><TreeViewComponent fields={this.field} allowDragAndDrop={true}
nodeDropped={this.nodeDropped.bind(this)}/><br /><br />nodeDropped(): void {} |
```

Expand/Collapse nodes

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

```
| Triggers before node is collapsed | Event:
beforeCollapse<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
beforeCollapse: this.beforeCollapse});<br />beforeCollapse: function(){} | Event:
nodeCollapsing<br/><br/><TreeViewComponent fields={this.field}
nodeCollapsing={this.nodeCollapsing.bind(this)}/><br /><br />nodeCollapsing(): void {} |
```

```
| Triggers before node is expanded | Event:
beforeExpand<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
beforeExpand: this.beforeExpand});<br />beforeExpand: function(){} | Event:
nodeExpanding<br/><br/><TreeViewComponent fields={this.field}
nodeExpanding={this.nodeExpanding.bind(this)}/><br /><br />nodeExpanding(): void {} |
```

```
| Collapse all nodes | Method: collapseAll<br/><br/>React.createElement(EJ.TreeView, {id: "tree",
fields: fields});<br />var treeObj = $("#tree").data("ejTreeView");<br />treeObj.collapseAll(); |
```

Method: `collapseAll`
`<TreeViewComponent fields={this.field} />`
`TreeViewComponent;`
`tree.collapseAll();` |

| Collapse Node | **Method:** `collapseNode`
`<React.createElement(EJ.TreeView, {id: "tree",`
`fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.collapseNode("1");` | **Method:** `collapseAll`
`<TreeViewComponent`
`fields={this.field} />`
`tree.collapseAll(["1"]);` |

| Prevent multiple nodes expand | **Property:**
`enableMultipleExpand`
`<React.createElement(EJ.TreeView, {id: "tree", fields: fields,`
`enableMultipleExpand: true});` | **Can be achieved using,**
`<TreeViewComponent`
`fields={this.field} nodeExpanding={this.nodeExpanding.bind(this)} />`
`nodeExpanding(args): void {`
`var parent=args.node.parentNode.closest('.e-list-`
`item');`
`if (parent === null) parent=args.node.parentNode.closest('.e-treeview');`
`var`
`children=parent.querySelectorAll('.e-list-item');`
`var i=0;`
`var`
`nodes=[];`
`while(i<children.length){`
`nodes.push(children[i].getAttribute("data-`
`uid"));`
`i++;`
`this.collapseAll(nodes)` |

| Expand all Nodes | **Method:** `expandAll`
`<React.createElement(EJ.TreeView, {id: "tree",`
`fields: fields, enableMultipleExpand: true});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.expandAll();` | **Method:** `expandAll`
`<TreeViewComponent fields={this.field}`
`/>`
`tree.expandAll();` |

| Expand Node | **Method:** `expandNode`
`<React.createElement(EJ.TreeView, {id: "tree",`
`fields: fields});`
`var treeObj = $("#tree").data("ejTreeView");`
`treeObj.expandNode("1");` | **Method:** `expandAll`
`<TreeViewComponent fields={this.field} />`
`tree.expandAll(["1"]);` |

| Gets/Sets Expanded nodes | **Property:**
`expandedNodes`
`<React.createElement(EJ.TreeView, {id: "tree", fields: fields,`
`expandedNodes: ['1', '2']});` | **Property:** `expandedNodes`
`<TreeViewComponent`
`fields={this.field} expandedNodes={this.expandedNodes} />`
`public expandedNodes: string[]`
`= ['1', '2'];` |

| Expand action | **Property:** `expandOn`
`<React.createElement(EJ.TreeView, {id: "tree",`
`fields: fields, expandOn: 'Click'});` | **Property:** `expandOn`
`<TreeViewComponent`
`fields={this.field} expandOn={'Click'} />` |

| Get expanded nodes | **Method:** `getExpandedNodes`
`<React.createElement(EJ.TreeView,`
`{id: "tree", fields: fields, enableMultipleExpand: true});`
`var treeObj =`
`$("#tree").data("ejTreeView");`
`treeObj.getExpandedNodes();` | **Can be achieved**
using,
`<TreeViewComponent fields={this.field} />`
`public tree:`
`TreeViewComponent;`
`var expand=tree.expandedNodes;`
`var i=0;`
`var`
`expandedNodes;`
`while(i<expand.length)`
`{`
`expandedNodes.push(treeObj.element.querySelector("[data-uid=" + expandednodes[i] +`
`"]"));`
`i++;`
`}`
`console.log(expandedNodes)` |

| Get expanded nodes index | **Method:**
`getExpandedNodesIndex`
`<React.createElement(EJ.TreeView, {id: "tree", fields: fields,`

```
enableMultipleExpand: true});<br/>var treeObj = $("#tree").data("ejTreeView");<br/>treeObj.getExpandedNodesIndex(); | Not Applicable |
```

| To check if node is expanded | **Method:** *isExpanded*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, enableMultipleExpand: true});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.isExpanded("book"); | **Can be achieved using**,

<TreeViewComponent fields={this.field} />

public tree: TreeViewComponent;
if(tree.expandedNodes.indexOf("book") !== -1) {
console.log("Node is expanded")
} |

| Triggers when node is collapsed successfully | **Event:** *nodeCollapse*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeCollapse: this.nodeCollapse});
nodeCollapse: function(){} | **Event:** *nodeCollapsed*

<TreeViewComponent fields={this.field} nodeCollapsed={this.nodeCollapsed.bind(this)} />

nodeCollapsed(): void {} |

| Triggers when node is expanded successfully | **Event:** *nodeExpand*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeExpand: this.nodeExpand});
nodeExpand: function(){} | **Event:** *nodeExpanded*

<TreeViewComponent fields={this.field} nodeExpanded={this.nodeExpanded.bind(this)} />

nodeExpanded(): void {} |

Node Editing

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Editing | **Property:** *allowEditing*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowEditing: true}); | **Property:** *allowEditing*

<TreeViewComponent fields={this.field} allowEditing={true} /> |

| Triggers before node is edited | **Event:** *beforeEdit*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforeEdit: this.beforeEdit, allowEditing: true});
beforeEdit: function(){} | **Event:** *nodeEditing*

<TreeViewComponent fields={this.field} allowEditing={true} nodeEditing={this.nodeEditing.bind(this)} />

nodeEditing(): void {} |

| To Enable editing programatically | Not Applicable | **Method:** *beginEdit*

<TreeViewComponent fields={this.field} allowEditing={true} />

public tree: TreeViewComponent;
tree.beginEdit("1"); |

| Triggers before node edit is successful | **Event:** *inlineEditValidation*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, inlineEditValidation: this.inlineEditValidation, allowEditing: true});
inlineEditValidation: function(){} | **Event:** *nodeEdited*

<TreeViewComponent fields={this.field} allowEditing={true} nodeEdited={this.nodeEdited.bind(this)} />

nodeEdited(): void {} |

| Triggers when node is edited successfully | **Event:** *nodeEdit*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeEdit: this.nodeEdit, allowEditing: true});
nodeEdit: function(){} | **Event:**


```
dataSourceChanged<br/><br/>Event: dataSourceChanged<br/><br/><TreeViewComponent
fields={this.field} allowEditing={true}
dataSourceChanged={this.dataSourceChanged.bind(this)}><br /><br />dataSourceChanged():
void {} |
```

Node Selection

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Multi-selection | **Property:** *allowMultiSelection*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowMultiSelection: true}); | **Property:** *allowMultiSelection*

<TreeViewComponent fields={this.field} allowMultiSelection={true}/> |

| Triggers before node is selected | **Event:** *beforeSelect*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, beforeSelect: this.beforeSelect});
beforeSelect: function(){} | **Event:** *nodeSelecting*

<TreeViewComponent fields={this.field} nodeSelecting={this.nodeSelecting.bind(this)}>

nodeSelecting(): void {} |

| Fullrowselection | **Property:** *fullRowSelect*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, fullRowSelect: true}); | **Property:** *fullRowSelect*

<TreeViewComponent fields={this.field} fullRowSelect={true}/> |

| Get selected node | **Method:** *getSelectedNode*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.getSelectedNode(); | **Can be achieved using,**

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
var select=tree.selectedNodes;
var selectedNode;
selectedNode.push(tree.element.querySelector("[data-uid=" + selectedNode[i] + "]"));
console.log(selectedNode) |

| Get selected node index | **Method:** *getSelectedNodeIndex*

React.createElement(EJ.TreeView, {id: "tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.getSelectedNodeIndex(); | **Can be achieved using,**

<TreeViewComponent fields={this.field}/>

public tree: TreeViewComponent;
var nodes=tree.element.querySelectorAll('.e-list-item')
var nodeIndex;
var i = 0;
while(i<nodes.length) {
if(nodes[i].classList.contains('e-active')) {nodeIndex = i;
break;
}
i++
}
console.log(nodeIndex) |

| Get selected nodes | **Method:** *getSelectedNodes*

React.createElement(EJ.TreeView, {id: "tree", fields: fields, allowMultiSelection: true});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.getSelectedNodes(); | **Can be achieved using,**

<TreeViewComponent fields={this.field} allowMultiSelection={true}/>

public tree: TreeViewComponent;
var select=tree.selectedNodes;
var i=0;
var selectedNodes;
while(i<select.length) {
selectedNodes.push(treeObj.element.querySelector("[data-uid=" + selectedNodes[i] + "]"));
i++
}
console.log(selectedNodes) |

| Get selected nodes index | **Method:**

```
getSelectedNodesIndex<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
allowMultiSelection: true});<br/>var treeObj = $("#tree").data("ejTreeView");<br
/>treeObj.getSelectedNodesIndex(); | Can be achieved using,<br/><br/><TreeViewComponent
fields={this.field} allowMultiSelection={true}/><br /><br />public tree:
TreeViewComponent;<br/>var nodes=tree.element.querySelectorAll('.e-list-item')<br/>var
nodeIndex;<br/>var i = 0;<br/>while(i<nodes.length) {<br/>if(nodes[i].classList.contains('e-
active')) {nodeIndex.push(i);<br/>}<br/>i++<br/>}<br/>console.log(nodeIndex) |
```

| To check if node is selected | **Method:** *isSelected*

React.createElement(EJ.TreeView, {id:
"tree", fields: fields});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.isSelected("book"); | **Can be achieved using**,

<TreeViewComponent
fields={this.field}/>

public tree: TreeViewComponent;
if
(tree.selectedNodes.indexOf("book") !== -1) {
console.log("Node is selected")
} |

| Triggers when node is selected successfully | **Event:**

```
nodeSelect<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields, nodeSelect:
this.nodeSelect});<br />nodeSelect: function(){} | Event:
nodeSelected<br/><br/><TreeViewComponent fields={this.field}
nodeSelected={this.nodeSelected.bind(this)}/><br /><br />nodeSelected(args): void {<br/>if
(args.action == "select") {}<br/>} |
```

| Select all nodes | **Method:** *selectAll*

React.createElement(EJ.TreeView, {id: "tree",
fields: fields, allowMultiSelection: true});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.selectAll(); | **Can be achieved using**,

<TreeViewComponent fields={this.field}
allowMultiSelection={true}/>

public tree: TreeViewComponent;
var nodes =
tree.element.querySelectorAll('.e-list-item')
var selectednodes;
for(int i = 0; i <
nodes.length; i++) {
selectednodes.push(nodes[i].getAttribute('data-uid'))}
tree.selectedNodes = selectednodes; |

| Gets/Sets selected node | **Property:** *selectedNode*

React.createElement(EJ.TreeView, {id:
"tree", fields: fields, selectedNode: ['1']}); | **Property:**
selectedNodes

<TreeViewComponent fields={this.field}
selectedNodes={this.selectedNode}/>

public selectedNode: string[] = ['1']; |

| Select node | **Method:** *selectNode*

React.createElement(EJ.TreeView, {id: "tree", fields:
fields, allowMultiSelection: true});
var treeObj = \$("#tree").data("ejTreeView");
treeObj.selectNode(["book"]); | **Can be achieved using**,

<TreeViewComponent
fields={this.field} allowMultiSelection={true}/>

public tree:
TreeViewComponent;
tree.selectedNodes=["book"] |

| Gets/Sets selected nodes | **Property:** *selectedNodes*

React.createElement(EJ.TreeView,
{id: "tree", fields: fields, allowMultiSelection: true, selectedNodes: ['1', '2']}); | **Property:**
selectedNodes

<TreeViewComponent fields={this.field} allowMultiSelection={true}
selectedNodes={this.selectedNode}/>
public selectedNodes: string[] = ['1', '2']; |

| Triggers when node is unselected successfully | **Event:**

```
nodeUnselect<br/><br/>React.createElement(EJ.TreeView, {id: "tree", fields: fields,
```

```
nodeUnselect: this.nodeUnselect});<br />nodeUnselect: function({}) | Event:
nodeSelected<br><br><TreeViewComponent fields={this.field}
nodeSelected={this.nodeSelected.bind(this)}><br /><br />nodeSelected(args): void {<br>if
(args.action == "un-select") {}<br>} |
| To unselect all nodes | Method: unselectAll<br><br>React.createElement(EJ.TreeView, {id:
"tree", fields: fields, allowMultiSelection: true});<br>var treeObj =
$("#tree").data("ejTreeView");<br />treeObj.unselectAll(); | Can be achieved
using,<br><br><TreeViewComponent fields={this.field} allowMultiSelection={true}><br /><br
/>public tree: TreeViewComponent;<br>tree.selectedNodes=[]; |
| To unselect node | Method: unselectNode<br><br>React.createElement(EJ.TreeView, {id:
"tree", fields: fields, allowMultiSelection: true});<br>var treeObj =
$("#tree").data("ejTreeView");<br />treeObj.unselectNode("book"); | Can be achieved
using,<br><br><TreeViewComponent fields={this.field} allowMultiSelection={true}><br /><br
/>public tree: TreeViewComponent;<br>var selectedNodes=tree.selectedNodes.pop(book) |
```

Template

| Behavior | API in Essential JS 1 | API in Essential JS 2 |

| --- | --- | --- |

| Custom template | **Property:** *template*

React.createElement(EJ.TreeView, {id: "tree",
fields: fields, template: templateData}); | **Property:** [Link to the
Video](#)

<TreeViewComponent fields={this.field} nodeTemplate={this.templateData}> |
{% endraw %}

Uploader

Getting Started

Getting Started

This section explains how to create and configure the simple uploader component with its basic usage in step by step procedure.

To get start quickly with React Uploader component, you can check on this video:

Dependencies

The following are the dependencies required to use the uploader component in your application:

```
`javascript
|-- @syncfusion/ej2-react-inputs
|-- @syncfusion/ej2-react-base
|-- @syncfusion/ej2-inputs
|-- @syncfusion/ej2-base
|-- @syncfusion/ej2-buttons
、
```

Installation and Configuration

You can use [Create-react-app](#) to setup the applications. To install `create-react-app` run the following command.

```
`bash
npm install -g create-react-app
```

Start a new project using create-react-app command as follows

```
create-react-app quickstart --scripts-version=react-scripts-ts
cd quickstart
```

Adding Syncfusion Packages

All the available Essential JS 2 packages are published in [npmjs.com](https://www.npmjs.com) public registry.

To install uploader component, use the following command

```
`bash
npm install @syncfusion/ej2-react-inputs --save
```

Adding CSS Reference

Import the uploader component's required CSS references as follows in `src/App.css`.

```
`css
@import "../node_modules/@syncfusion/ej2-base/styles/material.css";
@import "../node_modules/@syncfusion/ej2-buttons/styles/material.css";
@import "../node_modules/@syncfusion/ej2-react-inputs/styles/material.css";
```

The [Custom Resource Generator \(CRG\)](#) is an online web tool, which can be used to generate the custom script and styles for a set of specific components.

This web tool is useful to combine the required component scripts and styles in a single file.

Adding uploader to the application

Now, you can start adding uploader component to the application. We have added uploader component in `src/App.tsx`

file using following code.

```
[Class-component]
`ts
// import uploader component
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
```

```
import * as React from 'react';
import './App.css';
export default class App extends React.Component<{}, {}> {
  public render() {
    return <UploaderComponent id="uploader" />;
  }
}
```

[Functional-component]

```
`ts
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import './App.css';
function App() {
  return <UploaderComponent id="uploader" />;
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

From v16.2.41 version, the Essential JS2 AJAX library has been integrated for uploader server requests. Hence, use the third party **promise** library like blue-bird to use the uploader in Internet Explorer.

Run the application

After completing the configuration to render the basic uploader, run the following command to display the output in your default browser.

```
npm run start
```

From v16.2.41 version, the Essential JS2 AJAX library has been integrated for uploader server requests. Hence, use the third party **promise** library like blue-bird to use the uploader in Internet Explorer.

The following code example illustrates the output in your browser.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
```

```
export default class App extends React.Component {
  render() {
    return (<UploaderComponent />);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public render() {
    return (
      <UploaderComponent />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  return (<UploaderComponent />);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
  return (
    <UploaderComponent />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Adding drop area

By default, the uploader component allows to upload files by drag the files from file explorer and drop into the drop area. You can configure any other external element as drop target using **dropArea** property.

In the following sample, drop target is configured.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  dropAreaRef;
  onCreated() {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  render() {
    return (<div id='container'>
      <div id='droparea' ref={dropAreaEle => this.dropAreaRef =
dropAreaEle}>
        Drop files here to upload
      </div>
      <div id='uploadfile'>
        <UploaderComponent autoUpload={false} ref={upload =>
this.uploadObj = upload} asyncSettings={this.path} created={this.onCreated =
this.onCreated.bind(this)} />
      </div>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public uploadObj: UploaderComponent;
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  private dropAreaRef: HTMLElement;
  public onCreated(): void {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  public render(): JSX.Element {
    return (
      <div id='container'>
        <div id='droparea' ref={dropAreaEle => this.dropAreaRef =
dropAreaEle!}>
          Drop files here to upload
        </div>
      </div>
    );
  }
}
```

```

        </div>
        <div id='uploadfile' >
            <UploaderComponent autoUpload={false} ref = { upload =>
this.uploadObj = upload !} asyncSettings={this.path} created={this.onCreated
= this.onCreated.bind(this)} />
        </div>
    </div>
    );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj;
    const path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    let dropAreaRef;
    function onCreated() {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    return (<div id='container'>
        <div id='droparea' ref={dropAreaEle => dropAreaRef = dropAreaEle}>
            Drop files here to upload
        </div>
        <div id='uploadfile'>
            <UploaderComponent autoUpload={false} ref={upload => uploadObj =
upload} asyncSettings={path} created={onCreated = onCreated.bind(this)} />
        </div>
    </div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj: UploaderComponent;
    const path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };

```



```

    }
    let dropAreaRef: HTMLElement;
    function onCreate(): void {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    return (
        <div id='container'>
            <div id='droparea' ref={dropAreaEle => dropAreaRef = dropAreaEle!}>
                Drop files here to upload
            </div>
            <div id='uploadfile' >
                <UploaderComponent autoUpload={false} ref = { upload =>
uploadObj = upload !} asyncSettings={path} created={onCreated =
onCreated.bind(this)} />
            </div>
        </div>
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

Configure asynchronous settings

The uploader component processes the files to upload in Asynchronous mode by default. Define the properties **saveUrl** and **removeUrl** to handle the save and remove action as follows.

[Class-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    render() {
        return (<UploaderComponent autoUpload={false}
asyncSettings={this.path}/>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',

```

```

    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent autoUpload={false} asyncSettings={this.path} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<UploaderComponent autoUpload={false} asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <UploaderComponent autoUpload={false} asyncSettings={path} />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

Handle success and failed upload

You can handle the success and failure actions using the **success** and **failure** events. To handle these event, define the function and assign it to corresponding event as shown below.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    onUploadSuccess(args) {
        if (args.operation === 'upload') {
            // window.console.log('File uploaded successfully');
        }
    }
    onUploadFailure(args) {
        // window.console.log('File failed to upload');
    }
    render() {
        return (<UploaderComponent autoUpload={false}
        asyncSettings={this.path} success={this.onUploadSuccess =
        this.onUploadSuccess.bind(this)} failure={this.onUploadFailure =
        this.onUploadFailure.bind(this)} />);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public onUploadSuccess(args: any): void {
        if (args.operation === 'upload') {
            // window.console.log('File uploaded successfully');
        }
    }
    public onUploadFailure(args: any): void {
        // window.console.log('File failed to upload');
    }
    public render(): JSX.Element {
        return (
            <UploaderComponent autoUpload={false} asyncSettings={this.path}
            success={this.onUploadSuccess=this.onUploadSuccess.bind(this)}
            failure={this.onUploadFailure=this.onUploadFailure.bind(this)} />
        );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    function onUploadSuccess(args) {
        if (args.operation === 'upload') {
            // window.console.log('File uploaded successfully');
        }
    }
    function onUploadFailure(args) {
        // window.console.log('File failed to upload');
    }
    return (<UploaderComponent autoUpload={false} asyncSettings={path}
    success={onUploadSuccess = onUploadSuccess.bind(this)}
    failure={onUploadFailure = onUploadFailure.bind(this)}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    function onUploadSuccess(args: any): void {
        if (args.operation === 'upload') {
            // window.console.log('File uploaded successfully');
        }
    }
    function onUploadFailure(args: any): void {
        // window.console.log('File failed to upload');
    }
    return (
        <UploaderComponent autoUpload={false} asyncSettings={path}
        success={onUploadSuccess=onUploadSuccess.bind(this)}
        failure={onUploadFailure=onUploadFailure.bind(this)}/>
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

See Also

- [How to add additional data on upload](#)
- [Achieve file upload programmatically](#)
- [Achieve invisible upload](#)

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) that shows how to render the file upload and browse the files which you want to upload to the server.

Getting Started with the Uploader Component in the Preact Framework

This article provides a step-by-step guide for setting up a [Preact](#) project and integrating the Syncfusion React Uploader component.

Preact is a fast and lightweight JavaScript library for building user interfaces. It's often used as an alternative to larger frameworks like React. The key difference is that Preact is designed to be smaller in size and faster in performance, making it a good choice for projects where file size and load times are critical factors.

Prerequisites

[System requirements for Syncfusion React UI components](#)

Set up the Preact project

To create a new Preact project, use one of the commands that are specific to either NPM or Yarn.

```
`bash
```

```
npm init preact
```

```
,
```

or

```
`bash
```

```
yarn init preact
```

```
,
```

Using one of the above commands will lead you to set up additional configurations for the project, as below:

1\ Define the project name: We can specify the name of the project directly. Let's specify the name of the project as `my-project` for this article.

```
`bash
```

```
T Preact - Fast 3kB alternative to React with the same modern API
```

```
|
```

- Project directory:

| my-project

—

`

2\ Choose JavaScript as the framework variant to build this Preact project using JavaScript and React.

`bash

T Preact - Fast 3kB alternative to React with the same modern API

|

- Project language:

| > JavaScript

| TypeScript

—

`

3\ Then configure the project as below for this article.

`bash

T Preact - Fast 3kB alternative to React with the same modern API

|

- Use router?

| Yes / > No

—

|

- Prerender app (SSG)?

| Yes / > No

—

|

- Use ESLint?

| Yes / > No

—

`

5\ Upon completing the aforementioned steps to create `my-project`, run the following command to jump into the project directory:

```
`bash
cd my-project
`
```

Now that `my-project` is ready to run with default settings, let's add Syncfusion components to the project.

Add the Syncfusion React packages

Syncfusion React component packages are available at [npmjs.com](https://www.npmjs.com). To use Syncfusion React components in the project, install the corresponding npm package.

This article uses the [React Uploader component](#) as an example. To use the React Uploader component in the project, the `@syncfusion/ej2-react-inputs` package needs to be installed using the following command:

```
`bash
npm install @syncfusion/ej2-react-inputs --save
`
```

or

```
`bash
yarn add @syncfusion/ej2-react-inputs
`
```

Import Syncfusion CSS styles

You can import themes for the Syncfusion React component in various ways, such as using CSS or SASS styles from npm packages, CDN, CRG and [Theme Studio](#). Refer to [themes topic](#) to know more about built-in themes and different ways to refer to theme's in a React project.

In this article, the `Material 3` theme is applied using CSS styles, which are available in installed packages. The necessary `Material 3` CSS styles for the Uploader component and its dependents were imported into the `src/style.css` file.

~/SRC/STYLE.CSS

```
@import "../node_modules/@syncfusion/ej2-base/styles/material3.css";
@import "../node_modules/@syncfusion/ej2-buttons/styles/material3.css";
@import "../node_modules/@syncfusion/ej2-react-inputs/styles/material3.css";
```

The order of importing CSS styles should be in line with its dependency graph.

Add the Syncfusion React component

Follow the below steps to add the React Uploader component to the Vite project:

1\ Before adding the Uploader component to your markup, import the Uploader component in the `src/index.jsx` file.

~/SRC/INDEX.JSX


```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
```

2\ Then, add the Uploader component in the **src/index.jsx** file.

~/SRC/INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { render } from 'preact';
import './style.css';
function App() {
  return (<UploaderComponent />);
}
render(<App />, document.querySelector('#app'));
```

Run the project

To run the project, use the following command:

```
`bash
```

```
npm run dev
```

```
,
```

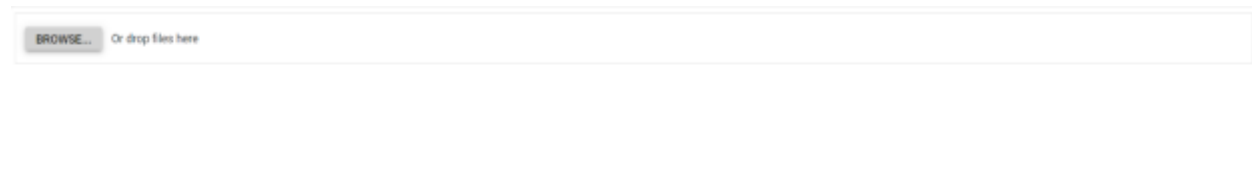
or

```
`bash
```

```
yarn run dev
```

```
,
```

The output will appear as follows:



See also

[Getting Started with the Syncfusion React UI Component](#)

[Async in React Uploader component](#)

The uploader component allows you to upload the files asynchronously. The upload process requires save and remove action URL to manage the upload process in the server.

- The save action is necessary to handle the upload operation.
- The remove action is optional, one which handle the removed files from server.

The File can be upload automatically or manually. For more information, you can refer to the **Auto Upload** section from the documentation.

[Multiple file upload](#)

By Default, the uploader component allows you to select and upload multiple files simultaneously.

The selected files are organized in a list for every file selection until you clear it by clicking clear button that is shown in footer. You can add the multiple attributes to original input element of file by enabling the `multiple` file selection.

The following example explains about multiple file upload settings.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent asyncSettings={this.path}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent asyncSettings={this.path} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
```

```

        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    return (<UploaderComponent asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
    const path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    return (
        <UploaderComponent asyncSettings={path} />
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

Single file upload

You can select and upload a single file by disabling the multiple file selection property.

The file list item is removed for every selection and it always maintain a single file to upload.You can remove the multiple attributes form the original input element of file by enabling the single file upload property.

The following example explains about single file upload settings.

[Class-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    render() {
        return (<UploaderComponent multiple={false}
asyncSettings={this.path}/>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public render(): JSX.Element {
        return (
            <UploaderComponent multiple={false} asyncSettings={this.path} />
        );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    return (<UploaderComponent multiple={false} asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
    const path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    return (
        <UploaderComponent multiple={false} asyncSettings={path} />
    );
}
```

```
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Save action

The save action handler upload the files that needs to be specified in the [saveUrl](#) property.

The save handler receives the submitted files and manages the save process in server. After uploading the files to server location, the color of the selected file name changes to green and the remove icon is changed as bin icon.

- When the file is uploaded successfully, the event “success” triggers to handle the

operation after upload.

- When the file is failed to upload, the event “failure” triggers with information,

which cause this failure

You can cancel the upload process by setting the upload event argument **eventargs.cancel** to true.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
  path = {
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent asyncSettings={this.path}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component<{}, {}> {
  public path: object = {
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent asyncSettings={this.path} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]**INDEX.JSX**

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path = {
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save '
    };
    return (<UploaderComponent asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path: object = {
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save '
    }
    return (
        <UploaderComponent asyncSettings={path} />
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Server-side configuration for save action

This section explains how to handle the server-side action for saving the file in server.

```
`csharp
```

```
[AcceptVerbs("Post")]
```

```
public void Save()
```

```
{
```

```
try
```

```
{
```

```
if (HttpContext.Current.Request.Files.AllKeys.Length > 0)
```

```
{
```

```
var httpPostedFile = HttpContext.Current.Request.Files["UploadFiles"];
```

```
if (httpPostedFile != null)
```

```
{
```

```
var fileSave = HttpContext.Current.Server.MapPath("UploadedFiles");
var fileSavePath = Path.Combine(fileSave, httpPostedFile.FileName);
if (!File.Exists(fileSavePath))
{
    httpPostedFile.SaveAs(fileSavePath);
    HttpResponseMessage Response = HttpContext.Current.Response;
    Response.Clear();
    Response.ContentType = "application/json; charset=utf-8";
    Response.StatusDescription = "File uploaded succesfully";
    Response.End();
}
else
{
    HttpResponseMessage Response = HttpContext.Current.Response;
    Response.Clear();
    Response.Status = "400 File already exists";
    Response.StatusCode = 400;
    Response.StatusDescription = "File already exists";
    Response.End();
}
}
}
}
catch (Exception e)
{
    HttpResponseMessage Response = System.Web.HttpContext.Current.Response;
    Response.Clear();
    Response.ContentType = "application/json; charset=utf-8";
    Response.StatusCode = 400;
    Response.Status = "400 No Content";
    Response.StatusDescription = e.Message;
    Response.End();
}
```



```
}
,
```

Remove action

The remove action is optional. Specify the URL to handle remove process from server. The remove handler receives the posted files and handle the remove operation in server.

- When the files are removed successfully from server, the success event triggers to denote the process has completed.
- When remove action fails, the event “failure” triggers with information, which cause failure in remove process.

You can differentiate the file operation whether the success event triggers from save or remove action in its arguments **eventArgs.operation** .

You can remove the files which is not uploaded yet from locally by clicking the remove icon. In this case, the success or failure events will not be triggered.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent asyncSettings={this.path}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component<{}, {}> {
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent
        asyncSettings={this.path} />
    );
  }
}
```

```
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<UploaderComponent asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <UploaderComponent
      asyncSettings={path} />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Server-side configuration for remove action

This section explains how to handle the server-side action for removing the file from server.

`csharp

[AcceptVerbs("Post")]

public void Remove()

{

try

{

```

var fileSave = "";
if (HttpContext.Current.Request.Form["cancel-uploading"] != null)
{
    fileSave = HttpContext.Current.Server.MapPath("UploadingFiles");
}
else
{
    fileSave = HttpContext.Current.Server.MapPath("UploadedFiles");
}
var fileName = HttpContext.Current.Request.Files["UploadFiles"].FileName;
var fileSavePath = Path.Combine(fileSave, fileName);
if (File.Exists(fileSavePath))
{
    File.Delete(fileSavePath);
}
}
catch (Exception e)
{
    HttpResponse Response = HttpContext.Current.Response;
    Response.Clear();
    Response.Status = "404 File not found";
    Response.StatusCode = 404;
    Response.StatusDescription = "File not found";
    Response.End();
}
}
,

```

Auto upload

By default, the uploader processes the files to upload once the files are selected and added in upload queue.

To upload manually, disable the **autoUpload** property. When you disable this property, you can use the action buttons to call upload all or clear all actions manually.

You can change those buttons text using the **buttons** property in the uploader component.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent asyncSettings={this.path}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent
        asyncSettings={this.path} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]**INDEX.JSX**

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<UploaderComponent asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <UploaderComponent
      asyncSettings={path} />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Sequential upload

By default, the uploader component process multiple files to upload simultaneously. When you enable the [sequentialUpload](#) property, the selected files will process sequentially (one after the other) to the server. If the file uploaded successfully or failed, the next file will upload automatically in this sequential upload. This feature helps to reduce the upload traffic and reduce the failure of file upload.

[Class-component]**INDEX.JSX**

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent sequentialUpload={true}
      asyncSettings={this.path}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
```

```

    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent sequentialUpload={true}
        asyncSettings={this.path} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<UploaderComponent sequentialUpload={true}
    asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
  const path: object = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <UploaderComponent sequentialUpload={true}
      asyncSettings={path} />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

Preload files

The uploader component allows you to preload the list of files that are uploaded in the server. The preloaded files are useful to view and remove the files from server that can be achieved by the **files** property. By default, the files are configured with uploaded successfully state on rendering file list.

The following properties are mandatory to configure the preloaded files:

- Name
- Size
- Type

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  preloadFiles = [
    { name: 'Books', size: 500, type: '.png' },
    { name: 'Movies', size: 12000, type: '.pdf' },
    { name: 'Study materials', size: 500000, type: '.docx' },
  ];
  render() {
    return (<UploaderComponent files={this.preloadFiles}
    asyncSettings={this.path}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { FilesPropModel, UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public preloadFiles: FilesPropModel[] = [
    {name: 'Books', size: 500, type: '.png'},
    {name: 'Movies', size: 12000, type: '.pdf'},
    {name: 'Study materials', size: 500000, type: '.docx'},
  ];
};
```



```

public render() {
  return (
    <UploaderComponent files={this.preloadFiles}
      asyncSettings={this.path} />
  );
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    removeUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  const preloadFiles = [
    { name: 'Books', size: 500, type: '.png' },
    { name: 'Movies', size: 12000, type: '.pdf' },
    { name: 'Study materials', size: 500000, type: '.docx' },
  ];
  return (<UploaderComponent files={preloadFiles} asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { FilesPropModel, UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
  const path: object = {
    removeUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  const preloadFiles: FilesPropModel[] = [
    {name: 'Books', size: 500, type: '.png'},
    {name: 'Movies', size: 12000, type: '.pdf'},
    {name: 'Study materials', size: 500000, type: '.docx'},
  ];
  return (
    <UploaderComponent files={preloadFiles}
      asyncSettings={path} />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

Adding additional HTTP headers with upload action

The Uploader component allows you to add the additional headers with `save` and `remove` action requests using the `uploading` and `removing` events, which helps to send validation token on file upload. Access the current request and set the request header within these events.

The following code block shows how to add the additional headers with save and remove action request.

[Class-component]

```
`ts
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public uploadObj: UploaderComponent;
  public path: object = {
    removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove',
    saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save'
  }
  public addHeaders(args: UploadingEventArgs) {
    (args.currentRequest as XMLHttpRequest).setRequestHeader('custom-header', 'Syncfusion');
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent ref = {upload => this.uploadObj = upload !}
        asyncSettings={this.path} uploading={this.addHeaders=this.addHeaders.bind(this)}
        removing={this.addHeaders=this.addHeaders.bind(this)} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

```
`ts
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-inputs';
```

```

import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
let uploadObj: UploaderComponent;
const path: object = {
removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove',
saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save'
}
function addHeaders(args: UploadingEventArgs) {
(args.currentRequest as XMLHttpRequest).setRequestHeader('custom-header', 'Syncfusion');
}
return (
<UploaderComponent ref = {upload => uploadObj != upload }
asyncSettings={path} uploading={addHeaders=addHeaders.bind(this)}
removing={addHeaders=addHeaders.bind(this)} />
);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

See Also

- [How to add additional data on upload](#)
- [How to add confirm dialog to remove the files](#)
- [Check the MIME type of file before uploading it](#)
- [How to open and edit the uploaded files](#)

Chunk upload in React Uploader component

The Uploader sends the large file split into small chunks and transmits to the server using AJAX. You can also pause, resume, and retry the failed chunk file.

* The chunk upload works in asynchronous upload only.

- This feature is available from the Essential Studio Vol 2, 2018 release.

To enable the chunk upload, set the size to [chunkSize](#) option of the upload and it receives the value in **bytes**.

[Class-component]**INDEX.JSX**

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    path = {
        chunkSize: 102400,
        // set chunk size for enable the chunk upload
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    render() {
        return (<div className="chunkupload">
            <UploaderComponent asyncSettings={this.path}/>
        </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public path: object = {
        chunkSize: 102400,
        // set chunk size for enable the chunk upload
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public render(): JSX.Element {
        return (
            <div className="chunkupload">
                <UploaderComponent asyncSettings={this.path} />
            </div>
        );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]**INDEX.JSX**

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
```

```

const path = {
  chunkSize: 102400,
  // set chunk size for enable the chunk upload
  removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
  saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
};
return (<div className="chunkupload">
  <UploaderComponent asyncSettings={path}/>
</div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    chunkSize: 102400,
    // set chunk size for enable the chunk upload
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <div className="chunkupload">
      <UploaderComponent asyncSettings={path} />
    </div>
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

The chunk upload functionality separates the selected files into blobs of the data or chunks. These chunks are transmitted to the server using an AJAX request.

The chunks are sent in **sequential** order, and the next chunk can be sent to the server according to the [success](#) of the previous chunk. If any one of the chunk failed, then the remaining chunk cannot be sent to the server.

The [chunkSuccess](#) or [chunkFailure](#) event will

be triggered when the chunk is sent to the server successfully or failed. If all the chunks are sent to the server successfully, the uploader success event is triggered.

Chunk upload will work when the selected file size is greater than the specified chunk size. otherwise, it upload the files normally.

Additional configurations

To modify the chunk upload, the following options can be used.

- **RetryAfterDelay** - If error occurs while sending any chunk request from JavaScript, hold the operation for 500 milliseconds (by default), and retry the operation using chunk. This can be achieved by using the [asyncSettings.retryAfterDelay](#) property. You can modify the holding time interval in milliseconds.
- **RetryCount** - Specifies the number of retry actions performed when the file fails to upload. By default, [retry](#) action is performed 3 times. If the file fails to upload continuously, the request is aborted and the uploader [failure](#) event will trigger.

The following sample specifies the chunk upload delay with 3000 milliseconds and the retry count is 5. The failure event is triggered as the wrong saveUrl is used.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    // provided the wrong url to showcase the chunk upload failure
    // related properties.
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    // set time delay for automatic retry when chunk upload failed
    retryAfterDelay: 3000,
    // set count for automatic retry when chunk upload failed
    retryCount: 5,
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<div className="chunkupload">
      <UploaderComponent asyncSettings={this.path}/>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    // provided the wrong url to showcase the chunk upload failure related
    // properties.
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    // set time delay for automatic retry when chunk upload failed

```

```

    retryAfterDelay: 3000,
    // set count for automatic retry when chunk upload failed
    retryCount: 5,
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <div className="chunkupload">
        <UploaderComponent asyncSettings={this.path} />
      </div>
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    // provided the wrong url to showcase the chunk upload failure
    related properties.
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    // set time delay for automatic retry when chunk upload failed
    retryAfterDelay: 3000,
    // set count for automatic retry when chunk upload failed
    retryCount: 5,
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<div className="chunkupload">
    <UploaderComponent asyncSettings={path}/>
  </div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    // provided the wrong url to showcase the chunk upload failure related
    properties.

```



```

    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    // set time delay for automatic retry when chunk upload failed
    retryAfterDelay: 3000,
    // set count for automatic retry when chunk upload failed
    retryCount: 5,
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <div className="chunkupload">
      <UploaderComponent asyncSettings={path} />
    </div>
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

Resumable upload

Allows you to resume an upload operation after a network failure or manually interrupts (pause) the upload. You can perform pause and resume upload actions using public methods ([pause](#) and [resume](#)) and UI interaction. The pause icon is enabled after the upload begins.

This pause and resume features available only when the chunk upload is enabled.

[Class-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<div className="chunkupload">
      <UploaderComponent asyncSettings={this.path}/>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    // set chunk size for enable the chunk upload

```

```

    chunkSize: 102400,
    removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove',
    saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save'
  }
  public render(): JSX.Element {
    return (
      <div className="chunkupload">
        <UploaderComponent asyncSettings={this.path} />
      </div>
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<div className="chunkupload">
    <UploaderComponent asyncSettings={path}/>
  </div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
  const path: object = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <div className="chunkupload">
      <UploaderComponent asyncSettings={path} />
    </div>
  );
}

```

```
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Cancel upload

The uploader component allows you to cancel the uploading file. This can be achieved by clicking the cancel icon or using the [cancel](#) method. The [cancelling](#) event will be fired whenever the file upload request is canceled. While canceling the upload request, the partially uploaded file is removed from the server.

When the request fails, the pause icon is changed to retry icon. By clicking the retry icon, sends the failed chunk request again to the server and upload started from where it is failed. You can retry the canceled upload request again using retry UI or [retry](#) methods. But, if you retry this, the file upload action again starts from initial.

The following example explains about chunk upload with cancel support.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<div className="chunkupload">
      <UploaderComponent asyncSettings={this.path}/>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
```

```

        <div className="chunkupload">
          <UploaderComponent asyncSettings={this.path} />
        </div>
      );
    }
  }
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  return (<div className="chunkupload">
    <UploaderComponent asyncSettings={path}/>
  </div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    // set chunk size for enable the chunk upload
    chunkSize: 102400,
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <div className="chunkupload">
      <UploaderComponent asyncSettings={path} />
    </div>
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

The retry action has different working behavior for chunk upload and default upload.

- Chunk upload - Retries to upload the failed request where it is failed previously.
- Default upload - Retries to upload the failed file again from initial.

Server-Side configurations

The server-side implementation entirely depends on the application requirements and logic. The following code snippet provides the server-side logic to handle the chunk upload using the uploader components.

```
`csharp
// Server configuration for upload a file.
public void Save()
{
    try
    {
        if (HttpContext.Current.Request.Files.AllKeys.Length > 0)
        {
            var httpPostedChunkFile = HttpContext.Current.Request.Files["chunkFile"];
            if (httpPostedChunkFile != null)
            {
                var saveFile = HttpContext.Current.Server.MapPath("UploadingFiles");
                // Save the chunk file in temporary location with .part extension
                var SaveFilePath = Path.Combine(saveFile, httpPostedChunkFile.FileName + ".part");
                var chunkIndex = HttpContext.Current.Request.Form["chunk-index"];
                if (chunkIndex == "0")
                {
                    httpPostedChunkFile.SaveAs(SaveFilePath);
                }
                else
                {
                    // Merge the current chunk file with previous uploaded chunk files
                    MergeChunkFile(SaveFilePath, httpPostedChunkFile.InputStream);
                    var totalChunk = HttpContext.Current.Request.Form["total-chunk"];
                    if (Convert.ToInt32(chunkIndex) == (Convert.ToInt32(totalChunk) - 1))
                    {
                        var savedFile = HttpContext.Current.Server.MapPath("UploadedFiles");
                        var originalFilePath = Path.Combine(savedFile, httpPostedChunkFile.FileName);
```

// After all the chunk files completely uploaded, remove the .part extension and move this file into save location

```
System.IO.File.Move(SaveFilePath, originalFilePath);
}
}

HttpResponse ChunkResponse = HttpContext.Current.Response;
ChunkResponse.Clear();
ChunkResponse.ContentType = "application/json; charset=utf-8";
ChunkResponse.StatusDescription = "File uploaded succesfully";
ChunkResponse.End();
}

var httpPostedFile = HttpContext.Current.Request.Files["UploadFiles"];
if (httpPostedFile != null)
{
    var fileSave = HttpContext.Current.Server.MapPath("UploadedFiles");
    var fileSavePath = Path.Combine(fileSave, httpPostedFile.FileName);
    if (!File.Exists(fileSavePath))
    {
        httpPostedFile.SaveAs(fileSavePath);
        HttpResponse Response = HttpContext.Current.Response;
        Response.Clear();
        Response.ContentType = "application/json; charset=utf-8";
        Response.StatusDescription = "File uploaded succesfully";
        Response.End();
    }
    else
    {
        HttpResponse Response = HttpContext.Current.Response;
        Response.Clear();
        Response.Status = "400 File already exists";
        Response.StatusCode = 400;
        Response.StatusDescription = "File already exists";
        Response.End();
    }
}
```

```
}  
}  
}  
}  
catch (Exception e)  
{  
    HttpResponseMessage Response = HttpContext.Current.Response;  
    Response.Clear();  
    Response.ContentType = "application/json; charset=utf-8";  
    Response.StatusCode = 400;  
    Response.Status = "400 No Content";  
    Response.StatusDescription = e.Message;  
    Response.End();  
}  
}  
  
// Server configuration for remove a uploaded file  
public void Remove()  
{  
    try  
    {  
        var fileSave = "";  
        if (HttpContext.Current.Request.Form["cancel-uploading"] != null)  
        {  
            fileSave = HttpContext.Current.Server.MapPath("UploadingFiles");  
        } else  
        {  
            fileSave = HttpContext.Current.Server.MapPath("UploadedFiles");  
        }  
        var fileName = HttpContext.Current.Request.Files["UploadFiles"].FileName;  
        var fileSavePath = Path.Combine(fileSave, fileName);  
        if (File.Exists(fileSavePath))  
        {  
            File.Delete(fileSavePath);  
        }  
    }  
}
```



```
}  
}  
catch (Exception e)  
{  
    HttpResponseMessage Response = HttpContext.Current.Response;  
    Response.Clear();  
    Response.Status = "404 File not found";  
    Response.StatusCode = 404;  
    Response.StatusDescription = "File not found";  
    Response.End();  
}  
}  
  
// Merge the current chunk file with previous uploaded chunk files  
public void MergeChunkFile(string fullPath, Stream chunkContent)  
{  
    try  
    {  
        using (FileStream stream = new FileStream(fullPath, FileMode.Append, FileAccess.Write,  
            FileShare.ReadWrite))  
        {  
            using (chunkContent)  
            {  
                chunkContent.CopyTo(stream);  
            }  
        }  
    }  
    catch (IOException ex)  
    {  
        throw ex;  
    }  
}  
,
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

File source in React Uploader component

Paste to upload

The uploader component allows you to upload the files using the select or drop files option from the file explorer. It also supports pasting to upload the image files. You can upload any currently copied images in the clipboard.

When you paste the image, it will be saved in the server with the filename as `image.png`. The file name can be renamed in the server end. You can generate a random name for the file name using `getUniqueID` method.

Refer to the following example.

[class-component]

INDEX.JSX

```
import { getUniqueID } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
    path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    onUploadBegin(args) {
        // check whether the file is uploading from paste.
        if (args.fileData.fileSource === 'paste') {
            const newName = getUniqueID(args.fileData.name.substring(0,
args.fileData.name.lastIndexOf('.'))) + '.png';
            args.customFormData = [{ 'fileName': newName }];
        }
    }
    render() {
        return (<UploaderComponent autoUpload={false}
asyncSettings={this.path} uploading={this.onUploadBegin =
this.onUploadBegin.bind(this)} />);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { getUniqueID } from '@syncfusion/ej2-base';
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-
inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component<{}, {}> {
```

```

    public path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public onUploadBegin(args: UploadingEventArgs): void {
        // check whether the file is uploading from paste.
        if (args.fileData.fileSource === 'paste') {
            const newName: string =
            getUniqueID(args.fileData.name.substring(0,
            args.fileData.name.lastIndexOf('.') + '.png');
            args.customFormData = [{ 'fileName': newName }];
        }
    }
    public render(): JSX.Element{
        return (
            <UploaderComponent autoUpload={false}
            asyncSettings={this.path} uploading={this.onUploadBegin =
            this.onUploadBegin.bind(this)} />;
        )
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { getUniqueID } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    function onUploadBegin(args) {
        // check whether the file is uploading from paste.
        if (args.fileData.fileSource === 'paste') {
            const newName = getUniqueID(args.fileData.name.substring(0,
            args.fileData.name.lastIndexOf('.') + '.png');
            args.customFormData = [{ 'fileName': newName }];
        }
    }
    return (<UploaderComponent autoUpload={false} asyncSettings={path}
    uploading={onUploadBegin = onUploadBegin.bind(this)} />);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { getUniqueID } from '@syncfusion/ej2-base';

```

```
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    function onUploadBegin(args: UploadingEventArgs): void {
        // check whether the file is uploading from paste.
        if (args.fileData.fileSource === 'paste') {
            const newName: string =
            getUniqueID(args.fileData.name.substring(0,
            args.fileData.name.lastIndexOf('.') + 1) + '.png';
            args.customFormData = [{ 'fileName': newName }];
        }
    }
    return (
        <UploaderComponent autoUpload={false}
            asyncSettings={path} uploading={onUploadBegin =
            onUploadBegin.bind(this)} />);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Save action for Paste upload

`csharp

public void Save()

{

var httpPostedFile = System.Web.HttpContext.Current.Request.Files["UploadFiles"];

var fileSave = System.Web.HttpContext.Current.Server.MapPath("UploadedFiles");

var fileSavePath = Path.Combine(fileSave, httpPostedFile.FileName);

if (!System.IO.File.Exists(fileSavePath))

{

httpPostedFile.SaveAs(fileSavePath);

var newName = System.Web.HttpContext.Current.Request.Form["fileName"];

var filePath = Path.Combine(fileSavePath.Substring(0, fileSavePath.LastIndexOf("\\")), newName);

// Rename the file

System.IO.File.Move(fileSavePath, newName);

HttpResponse Response = System.Web.HttpContext.Current.Response;

Response.Clear();

Response.ContentType = "application/json; charset=utf-8";

```
Response.StatusDescription = fileSavePath;
Response.End();
}
}
`
```

Directory upload

The uploader component allows you to upload all files in the folders to server by using the [directoryUpload](#) property. When this property is enabled, the uploader component processes the files by iterating through the files and sub-directories in a directory. It allows you to select only folders instead of files to upload.

The directory upload is available only in browsers that supports **HTML5 directory**. The uploader will process directory upload by dragging and dropping in the Edge browser. Refer to the following example to upload files to the server.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent asyncSettings={this.path}
directoryUpload={true}/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent asyncSettings={this.path} directoryUpload={true}
/>);
  }
}
```

```
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    return (<UploaderComponent asyncSettings={path}
    directoryUpload={true}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
    const path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    return (
        <UploaderComponent asyncSettings={path} directoryUpload={true} />;
    )
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Save action for directory upload

`csharp

```
public void Save() {
    var httpPostedFile = HttpContext.Current.Request.Files["UploadFiles"];
    var fileSave = HttpContext.Current.Server.MapPath("UploadedFiles");
    // split the folders by using file name
    string[] folders = httpPostedFile.FileName.Split('/');
    string fileSavePath = "";
    if (folders.Length > 1)
```

```

{
for (var i = 0; i < folders.Length - 1; i++)
{
var newFolder = Path.Combine(fileSave, folders[i]);
// create folder
Directory.CreateDirectory(newFolder);
fileSave = newFolder;
}
fileSavePath = Path.Combine(fileSave, folders[folders.Length - 1]);
}
else
{
fileSavePath = Path.Combine(fileSave, httpPostedFile.FileName);
}
if (!System.IO.File.Exists(fileSavePath))
{
// save file in the corresponding server location
httpPostedFile.SaveAs(fileSavePath);
HttpResponse Response = System.Web.HttpContext.Current.Response;
Response.Clear();
Response.ContentType = "application/json; charset=utf-8";
// Sending the file path to client side
Response.StatusDescription = fileSavePath;
Response.End();
}
}
,

```

Drag and drop

The uploader component allows you to drag and drop the files to upload. You can drag the files from file explorer and drop into the drop area. By default, the uploader component act as drop area element. The drop area gets highlighted when you drag the files over drop area.

Custom drop area

The uploader component allows you to set external target element as drop area using the **dropArea** property. The element can be represented as HTML element or element's id.

[Class-component]

INDEX.JSX

```
{% raw %}
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
export default class App extends React.Component {
    uploadObj;
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreate() {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    render() {
        return (<div id='container'>
            <div id='droparea' ref={dropAreaEle => this.dropAreaRef =
dropAreaEle}>
                Drop files here to upload
            </div>
            <div id='uploadfile'>
                <UploaderComponent autoUpload={false} ref={upload => {
this.uploadObj = upload; }} created={this.onCreate =
this.onCreate.bind(this)} asyncSettings={this.path}/>
            </div>
        </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public render(): JSX.Element {
```

```

        return (
          <div id='container'>
            <div id='droparea' ref={dropAreaEle => this.dropAreaRef =
dropAreaEle!}>
              Drop files here to upload
            </div>
            <div id='uploadfile'>
              <UploaderComponent autoUpload={false} ref = {upload =>
{this.uploadObj = upload !}} created={this.onCreated =
this.onCreated.bind(this)} asyncSettings={this.path} />
            </div>
          </div>;
        )
      }
    }
    ReactDOM.render(<App />, document.getElementById('fileupload'));
    {% endraw %}
  
```

[Functional-component]

INDEX.JSX

```

{% raw %}
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
function App() {
  let uploadObj;
  const path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  let dropAreaRef;
  function onCreated() {
    uploadObj.dropArea = dropAreaRef;
    uploadObj.dataBind();
  }
  return (<div id='container'>
    <div id='droparea' ref={dropAreaEle => dropAreaRef =
dropAreaEle}>
      Drop files here to upload
    </div>
    <div id='uploadfile'>
      <UploaderComponent autoUpload={false} ref={upload => {
uploadObj = upload; }} created={onCreated = onCreated.bind(this)}
asyncSettings={path}/>
    </div>
  </div>;
)
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
  
```

INDEX.TSX

```

{% raw %}
  
```

```
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
function App() {
    let uploadObj: UploaderComponent;
    const path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    let dropAreaRef: HTMLElement;
    function onCreate(): void {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    return (
        <div id='container'>
            <div id='droparea' ref={dropAreaEle => dropAreaRef =
dropAreaEle!}>
                Drop files here to upload
            </div>
            <div id='uploadfile'>
                <UploaderComponent autoUpload={false} ref = {upload =>
{uploadObj = upload !}} created={onCreated = onCreate.bind(this)}
asyncSettings={path} />
            </div>
        </div>);
    }
    ReactDOM.render(<App />, document.getElementById('fileupload'));
    {% endraw %}
```

Customize drop area

You can customize the appearance of drop area by overriding the default drop area styles. The class `""` and `""` is available to handle this customization.

[Class-component]

INDEX.JSX

```
{% raw %}
import { select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreate() {
        this.uploadObj.dropArea = this.dropAreaRef;
    }
}
```

```

        this.uploadObj.dataBind();
    }
    browseClick(args) {
        const wrapperEle = select('.e-file-select-wrap button', document);
        wrapperEle.click();
        args.preventDefault();
    }
    render() {
        return (
            <div id='container'>
                <div id='dropArea'>
                    <span id='drop'> Drop files here or <a href=""
id='browse' onClick={this.browseClick} =
this.browseClick.bind(this)}><u>Browse</u></a> </span>
                    <UploaderComponent asyncSettings={this.path} ref={upload
=> { this.uploadObj = upload; }} created={this.onCreated} =
this.onCreated.bind(this)}>
                </div>
            </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreated(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public browseClick(args: React.MouseEvent): void {
        const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
document) as HTMLElement;
        wrapperEle.click();
        args.preventDefault();
    }
    public render(): JSX.Element {
        return (
            <div id='container'>
                <div id='dropArea'>
                    <span id='drop'> Drop files here or <a href=""
id='browse'

```

```
onClick={this.browseClick=this.browseClick.bind(this)}><u>Browse</u></a>
</span>
        <UploaderComponent asyncSettings={this.path} ref =
{upload => {this.uploadObj = upload!}} created={this.onCreated =
this.onCreated.bind(this)}/>
      </div>
    </div>
  );
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

[Functional-component]

INDEX.JSX

```
{% raw %}
import { select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  let uploadObj;
  const path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  let dropAreaRef;
  function onCreated() {
    uploadObj.dropArea = dropAreaRef;
    uploadObj.dataBind();
  }
  function browseClick(args) {
    const wrapperEle = select('.e-file-select-wrap button', document);
    wrapperEle.click();
    args.preventDefault();
  }
  return (<div id='container'>
    <div id='dropArea'>
      <span id='drop'> Drop files here or <a href=""
id='browse' onClick={browseClick = browseClick.bind(this)}><u>Browse</u></a>
</span>
      <UploaderComponent asyncSettings={path} ref={upload => {
uploadObj = upload; }} created={onCreated = onCreated.bind(this)}/>
    </div>
  </div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
```

```
import { select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj: UploaderComponent;
    const path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    let dropAreaRef: HTMLElement;
    function onCreated(): void {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    function browseClick(args: React.MouseEvent): void {
        const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
document) as HTMLElement;
        wrapperEle.click();
        args.preventDefault();
    }
    return (
        <div id='container'>
            <div id='dropArea'>
                <span id='drop'> Drop files here or <a href=""
id='browse' onClick={browseClick=browseClick.bind(this)}><u>Browse</u></a>
</span>
                <UploaderComponent asyncSettings={path} ref = {upload =>
{uploadObj = upload!}} created={onCreated = onCreated.bind(this)} />
            </div>
        </div>
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

See Also

- [Achieve file upload programmatically](#)
- [Validate image/* on drop](#)

Validation in React Uploader component

The uploader component validate the selected files size and extension using the **allowedExtensions**, **minFileSize** and **maxFileSize** properties.

The files can be validated before uploading to the server and can be ignored on uploading. Also, you can validate the files by setting the HTML attributes to the original input element. The validation process occurs on drag-and-drop the files also.

File type

You can allow the specific files alone to upload using the **allowedExtensions** property. The extension can be represented as collection by comma separators.

The uploader component filters the selected or dropped files to match against the specified file types and processes the upload operation. The validation happens when you specify value to inline attribute to accept the original input element.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  // Uploader component
  path = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  render() {
    return (<UploaderComponent asyncSettings={this.path}
    allowedExtensions='.doc, .docx, .xls, .xlsx' />);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  // Uploader component
  public path: object = {
    removeUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
    'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public render(): JSX.Element{
    return (
      <UploaderComponent asyncSettings = {this.path}
        allowedExtensions='.doc, .docx, .xls, .xlsx' />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX


```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    // Uploader component
    const path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    return (<UploaderComponent asyncSettings={path} allowedExtensions='.doc,
.docx, .xls, .xlsx'/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App(){
    // Uploader component
    const path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    return (
        <UploaderComponent asyncSettings = {path}
            allowedExtensions='.doc, .docx, .xls, .xlsx'/>
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

File size

The uploader component allows you to validate the files based on its size. The validation helps to restrict uploading large files or empty files to the server.

The size can be represented in bytes. By default, the uploader component allows to upload minimum file size as **0 byte** and maximum file size as **28.4 MB** using `minFileSize` and `maxFileSize` properties.

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    // Uploader component
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
```

```

        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    render() {
        return (<UploaderComponent asyncSettings={this.path}
minFileSize={10000} maxFileSize={28400000}/>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    // Uploader component
    public path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public render(): JSX.Element{
        return (
            <UploaderComponent asyncSettings = {this.path} minFileSize = {10000}
maxFileSize= {28400000}
            />
        )
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    // Uploader component
    const path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    return (<UploaderComponent asyncSettings={path} minFileSize={10000}
maxFileSize={28400000}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  // Uploader component
  const path: object = {
    removeUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <UploaderComponent asyncSettings = {path} minFileSize = {10000}
    maxFileSize= {28400000}
    />
  )
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

Maximum files count

You can restrict the maximum number of files on uploading using the selected event. In the selected event arguments, you can get the currently selected files details using **getFilesData()**. You can modify the files details and assign the modified file list to **eventArgs.modifiedFilesData**.

[Class-component]

INDEX.JSX

```
{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  onFileSelected(args) {
    args.filesData.splice(5);
    const filesData = this.uploadObj.getFilesData();
    const allFiles = filesData.concat(args.filesData);
    if (allFiles.length > 5) {
      for (const i of allFiles) {
        if (i.length > 5) {
          allFiles.shift();
        }
      }
      args.filesData = allFiles;
      args.modifiedFilesData = args.filesData;
    }
    args.isModified = true;
  }
  render() {
```

```

        return (<UploaderComponent asyncSettings={this.path}
selected={this.onFileSelected = this.onFileSelected.bind(this)} ref={upload
=> { this.uploadObj = upload; }}/>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

import {FileInfo, SelectedEventArgs, UploaderComponent } from
'@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public onFileSelected(args : SelectedEventArgs) : void {
        args.filesData.splice(5);
        const filesData : FileInfo[] = this.uploadObj.GetFilesData();
        const allFiles : FileInfo[] = filesData.concat(args.filesData);
        if (allFiles.length > 5) {
            for (const i of allFiles) {
                if ((i as any).length > 5) {
                    allFiles.shift();
                }
            }
            args.filesData = allFiles;
            args.modifiedFilesData = args.filesData;
        }
        args.isModified = true;
    }
    public render(): JSX.Element{
        return (
            <UploaderComponent asyncSettings = {this.path}
selected={this.onFileSelected = this.onFileSelected.bind(this)} ref = {upload
=> {this.uploadObj = upload !}} />);
        )
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

[Functional-component]

INDEX.JSX

```

{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj;

```

```

    const path = {
      removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
      saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    function onFileSelected(args) {
      args.filesData.splice(5);
      const filesData = this.uploadObj.getFilesData();
      const allFiles = filesData.concat(args.filesData);
      if (allFiles.length > 5) {
        for (const i of allFiles) {
          if (i.length > 5) {
            allFiles.shift();
          }
        }
        args.filesData = allFiles;
        args.modifiedFilesData = args.filesData;
      }
      args.isModified = true;
    }
    return (<UploaderComponent asyncSettings={path}
selected={this.onFileSelected = onFileSelected.bind(this)} ref={upload => {
this.uploadObj = upload; }}/>);
  }
  ReactDOM.render(<App />, document.getElementById('fileupload'));
  {% endraw %}

```

INDEX.TSX

```

{% raw %}
import {FileInfo, SelectedEventArgs, UploaderComponent } from
'@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  let uploadObj: UploaderComponent;
  const path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  function onFileSelected(args : SelectedEventArgs) : void {
    args.filesData.splice(5);
    const filesData : FileInfo[] = uploadObj.getFilesData();
    const allFiles : FileInfo[] = filesData.concat(args.filesData);
    if (allFiles.length > 5) {
      for (const i of allFiles) {
        if ((i as any).length > 5) {
          allFiles.shift();
        }
      }
      args.filesData = allFiles;
      args.modifiedFilesData = args.filesData;
    }
  }
}

```

```

        args.isModified = true;
    }

    return (
        <UploaderComponent asyncSettings = {path} selected={onFileSelected =
onFileSelected.bind(this)} ref = {upload => {uploadObj = upload !}} />;
    )
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

Duplicate files

You can validate the duplicate files before uploading to server using the selected event. Compare the selected files with the existing files data and filter the file list by removing the duplicate files.

[Class-component]

INDEX.JSX

```

{% raw %}
import { isNullOrUndefined } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    onFileSelected(args) {
        let existingFiles = this.uploadObj.getFilesData();
        for (let i = 0; i < args.filesData.length; i++) {
            for (const j of existingFiles) {
                if (!isNullOrUndefined(args.filesData[i])) {
                    if (j.name === args.filesData[i].name) {
                        args.filesData.splice(i, 1);
                    }
                }
            }
        }
        existingFiles = existingFiles.concat(args.filesData);
        args.modifiedFilesData = existingFiles;
        args.isModified = true;
    }
    render() {
        return (<UploaderComponent asyncSettings={this.path}
selected={this.onFileSelected = this.onFileSelected.bind(this)} ref={upload
=> { this.uploadObj = upload; }}/>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```
{% raw %}
import { isNullOrUndefined } from '@syncfusion/ej2-base';
import { FileInfo, SelectedEventArgs, UploaderComponent } from
 '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}>, {}> {
public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public onFileSelected(args : SelectedEventArgs) : void {
        let existingFiles: FileInfo[] = this.uploadObj.GetFilesData();
        for (let i: number = 0; i < args.filesData.length; i++) {
            for(const j of existingFiles) {
                if (!isNullOrUndefined(args.filesData[i])) {
                    if (j.name === args.filesData[i].name) {
                        args.filesData.splice(i, 1);
                    }
                }
            }
        }
        existingFiles = existingFiles.concat(args.filesData);
        args.modifiedFilesData = existingFiles;
        args.isModified = true;
    }
public render(): JSX.Element{
    return (
        <UploaderComponent asyncSettings = {this.path}
selected={this.onFileSelected = this.onFileSelected.bind(this)} ref = {upload
=> {this.uploadObj = upload !}} />);
    )
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

[Functional-component]

INDEX.JSX

```
{% raw %}
import { isNullOrUndefined } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj;
    const path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    };
}
```



```
function onFileSelected(args) {
  let existingFiles = this.uploadObj.getFilesData();
  for (let i = 0; i < args.filesData.length; i++) {
    for (const j of existingFiles) {
      if (!isNullOrUndefined(args.filesData[i])) {
        if (j.name === args.filesData[i].name) {
          args.filesData.splice(i, 1);
        }
      }
    }
  }
  existingFiles = existingFiles.concat(args.filesData);
  args.modifiedFilesData = existingFiles;
  args.isModified = true;
}

return (<UploaderComponent asyncSettings={path} selected={onFileSelected
= onFileSelected.bind(this)} ref={upload => { uploadObj = upload; }}/>);
}

ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import { isNullOrUndefined } from '@syncfusion/ej2-base';
import { FileInfo, SelectedEventArgs, UploaderComponent } from
 '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  let uploadObj: UploaderComponent;
  const path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  function onFileSelected(args : SelectedEventArgs) : void {
    let existingFiles: FileInfo[] = this.uploadObj.getFilesData();
    for (let i: number = 0; i < args.filesData.length; i++) {
      for(const j of existingFiles) {
        if (!isNullOrUndefined(args.filesData[i])) {
          if (j.name === args.filesData[i].name) {
            args.filesData.splice(i, 1);
          }
        }
      }
    }
    existingFiles = existingFiles.concat(args.filesData);
    args.modifiedFilesData = existingFiles;
    args.isModified = true;
  }

  return (
    <UploaderComponent asyncSettings = {path} selected={onFileSelected =
onFileSelected.bind(this)} ref = {upload => {uploadObj = upload !}} />);
  }
}
```

```
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

See Also

- [Validate image/* on drop](#)
- [Determine whether uploader has file input \(required validation\)](#)
- [Check file size before uploading it](#)
- [Check the MIME type of file before uploading it](#)

Form support in React Uploader component

The uploader component works with HTML form like default file input. The following configuration must to make the uploader works inside form.

- `saveUrl` and `removeUrl` must be null.
- `autoUpload` must be disabled.
- `name` attribute must be added in input element.

The selected or dropped files are received as a collection in form action when the form is submitted. The form action handles the server-side operations that manage the file upload process. When you reset the form, the file list and data will be cleared.

[Class-component]

INDEX.JSX

```
{% raw %}
import { select } from '@syncfusion/ej2-base';
import { FormValidator } from '@syncfusion/ej2-inputs';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class Validation extends React.Component {
  uploadObj;
  dialogInstance;
  formObject;
  animationSettings = { effect: 'Zoom' };
  floatFocus(args) {
    args.target.parentElement.classList.add('e-input-focus');
  }
  floatBlur(args) {
    args.target.parentElement.classList.remove('e-input-focus');
  }
  // Dialog will be closed, while clicking on overlay
  onOverlayClick() {
    this.dialogInstance.hide();
  }
}
```

```

componentDidMount() {
  const options = {
    rules: {
      'email': {
        required: [true, '* Enter your email']
      },
      'mobile': {
        required: [true, '* Enter your mobile number']
      },
      'name': {
        required: [true, '* Enter your name']
      },
      'upload': {
        required: [true, '* Select any file']
      }
    }
  };
  this.formObject = new FormValidator('#form1', options);
}
onClick(args) {
  const wrapperEle = select('.e-file-select-wrap button', document);
  wrapperEle.click();
  args.preventDefault();
}
onSubmitClick() {
  if (this.formObject.validate()) {
    this.formObject.element.reset();
    this.dialogInstance.show();
  }
}
onFileSelected(args) {
  const inputElement = document.getElementById('upload');
  inputElement.value = args.filesData[0].name;
}
render() {
  return (<div className='control-pane'>
    <div className='control-section col-lg-12 uploadpreview'>
      <h4 className="form-title">Photo Contest</h4>
      <div className='upload_wrapper'>
        <div className="control_wrapper" id="control_wrapper">
          <form id="form1" method="post">
            <div className="form-group">
              <div className="e-float-input">
                <input type="text" id="name" name="name" onFocus={this.floatFocus}
onBlur={this.floatBlur} data-msg-containerid="nameError"/>
                <span className="e-float-line"/>
                <label className="e-float-text e-label-top" htmlFor="name">Name</label>
              </div>
              <div id="nameError"/>
            </div>
            <div className="form-group">
              <div className="e-float-input">
                <input type="email" id="Email" name="email" data-msg-
containerid="mailError"/>
                <span className="e-float-line"/>
                <label className="e-float-text e-label-top" htmlFor="email">Email</label>
              </div>

```

```

        <div id="mailError"/>
      </div>
      <div className="form-group">
        <div className="e-float-input">
          <input type="text" id="mobilenno" name="mobile" data-msg-
containerid="noError"/>
          <span className="e-float-line"/>
          <label className="e-float-text e-label-top" htmlFor="mobile">Mobile
no</label>
        </div>
        <div id="noError"/>
      </div>
      <div className="form-group">
        <div className="e-float-input upload-area">
          <input type="text" readOnly={true} id="upload" name="upload" data-msg-
containerid="uploadError"/>
          <button id="browse" className="e-control e-btn e-info"
onClick={this.onClick}>Browse..</button>
          <span className="e-float-line"/>
          <label className="e-float-text e-label-top">Choose a file</label>
        </div>
        <div id="uploadError">
          <UploaderComponent id='fileUpload' type='file' ref={upload => {
this.uploadObj = upload; }} selected={this.onFileSelected =
this.onFileSelected.bind(this)} autoUpload={false}
allowedExtensions='image/*'/>
        </div>
        <div className="form-group">
          <div className="e-float-input">
            <textarea className="address-field" id="Address" name="Address"/>
            <span className="e-float-line"/>
            <label className="e-float-text e-label-top">Address</label>
          </div>
        </div>
      </form>
      <div className="submitBtn">
        <button className="submit-btn e-btn" onClick={this.onSubmitClick =
this.onSubmitClick.bind(this)} id="submit-btn">Submit</button>
      </div>
      <div id="confirmationDialog"/> </div>
    </div>
    <div>
      <DialogComponent id="defaultdialog" isModal={true} visible={false}
content='Your details has been updated successfully, Thank you'
animationSettings={this.animationSettings} width={'50%'} ref={dialog =>
this.dialogInstance = dialog} target={'control-section'}
overlayClick={this.onOverlayClick = this.onOverlayClick.bind(this)}/>
    </div>
  );
}
}
ReactDOM.render(<Validation />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```
{% raw %}
```

```
import { select } from '@syncfusion/ej2-base';
import { FormValidator } from '@syncfusion/ej2-inputs';
import { FormValidatorModel } from '@syncfusion/ej2-inputs';
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class Validation extends React.Component<{}, {}> {
public uploadObj: UploaderComponent;
public dialogInstance: DialogComponent;
public formObject: FormValidator;
private animationSettings: object = { effect: 'Zoom' };
public floatFocus(args: React.FocusEvent): void {
((args.target as HTMLElement).parentElement as
HTMLElement).classList.add('e-input-focus');
}
public floatBlur(args: any): void {
((args.target as HTMLElement).parentElement as
HTMLElement).classList.remove('e-input-focus');
}
// Dialog will be closed, while clicking on overlay
public onOverlayClick() {
this.dialogInstance.hide();
}
public componentDidMount(): void {
const options: FormValidatorModel = {
rules: {
'email': {
required: [true, '* Enter your email']
},
'mobile': {
required: [true, '* Enter your mobile number']
},
'name': {
required: [true, '* Enter your name']
},
'upload': {
required: [true, '* Select any file']
}
}
};
this.formObject = new FormValidator('#form1', options);
}
public onClick(args: React.MouseEvent) {
const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
document) as HTMLElement;
wrapperEle.click();
args.preventDefault();
}
public onSubmitClick(): void {
if(this.formObject.validate()) {
this.formObject.element.reset();
this.dialogInstance.show();
}
}
public onFileSelected(args: SelectedEventArgs) : void {
```

```

        const inputElement:HTMLInputElement = document.getElementById('upload')
    as HTMLInputElement;
        inputElement.value = args.filesData[0].name;
    }
    public render(): JSX.Element {
        return (
            <div className = 'control-pane'>
                <div className='control-section col-lg-12 uploadpreview'>
                    <h4 className="form-title">Photo Contest</h4>
                    <div className='upload_wrapper'>
                        <div className="control_wrapper" id="control_wrapper">
<form id="form1" method="post">
<div className="form-group" >
<div className="e-float-input">
    <input type="text" id="name" name="name" onFocus= {this.floatFocus} onBlur=
{this.floatBlur} data-msg-containerid="nameError" />
    <span className="e-float-line"/>
    <label className="e-float-text e-label-top" htmlFor="name">Name</label>
</div>
<div id="nameError"/>
</div>
<div className="form-group">
<div className="e-float-input">
<input type="email" id="Email" name="email" data-msg-
containerid="mailError"/>
    <span className="e-float-line"/>
    <label className="e-float-text e-label-top" htmlFor="email" >Email</label>
</div>
<div id="mailError"/>
</div>
<div className="form-group" >
    <div className="e-float-input">
        <input type="text" id="mobilen0" name="mobile" data-msg-
containerid="noError" />
        <span className="e-float-line"/>
        <label className="e-float-text e-label-top" htmlFor="mobile" >Mobile
no</label>
    </div>
    <div id="noError"/>
</div>
<div className="form-group" >
    <div className="e-float-input upload-area">
        <input type="text" readOnly={true} id="upload" name="upload" data-msg-
containerid="uploadError"/>
        <button id="browse" className="e-control e-btn e-info"
onClick={this.onClick}>Browse..</button>
        <span className="e-float-line"/>
        <label className="e-float-text e-label-top">Choose a file</label>
    </div>
    <div id="uploadError">
        <UploaderComponent id='fileUpload' type = 'file' ref = {upload =>
{this.uploadObj = upload !}}
        selected={this.onFileSelected=this.onFileSelected.bind(this)}
        autoUpload = {false}
        allowedExtensions= 'image/*' />
    </div>
</div>
<div className="form-group" >
    <div className="e-float-input">

```

```

        <textarea className="address-field" id="Address" name="Address"/>
        <span className="e-float-line"/>
        <label className="e-float-text e-label-top" >Address</label>
    </div>
</div>
</form>
    <div className="submitBtn">
        <button className="submit-btn e-btn" onClick={this.onSubmitClick =
this.onSubmitClick.bind(this)} id="submit-btn">Submit</button>
    </div>
    <div id="confirmationDialog"/> </div>
</div>
</div>
    <DialogComponent id="defaultdialog" isModal={true} visible = {false} content
= 'Your details has been updated successfully, Thank you'
animationSettings={this.animationSettings} width={'50%'} ref={dialog =>
this.dialogInstance = dialog!}
    target={'control-section'}
overlayClick={this.onOverlayClick=this.onOverlayClick.bind(this)} />
    </div>) }
}
ReactDOM.render(<Validation />, document.getElementById('fileupload'));
{% endraw %}

```

[Functional-component]

INDEX.JSX

```

{% raw %}
import { select } from '@syncfusion/ej2-base';
import { FormValidator } from '@syncfusion/ej2-inputs';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
function Validation() {
    let uploadObj;
    let dialogInstance;
    let formObject;
    const animationSettings = { effect: 'Zoom' };
    function floatFocus(args) {
        args.target.parentElement.classList.add('e-input-focus');
    }
    function floatBlur(args) {
        args.target.parentElement.classList.remove('e-input-focus');
    }
    // Dialog will be closed, while clicking on overlay
    function onOverlayClick() {
        dialogInstance.hide();
    }
    React.useEffect(() => {
        const options = {
            rules: {
                'email': {
                    required: [true, '* Enter your email']
                },
            },

```



```

        'mobile': {
            required: [true, '* Enter your mobile number']
        },
        'name': {
            required: [true, '* Enter your name']
        },
        'upload': {
            required: [true, '* Select any file']
        }
    }
};
formObject = new FormValidator('#form1', options);
}, []);
function onClick(args) {
    const wrapperEle = select('.e-file-select-wrap button', document);
    wrapperEle.click();
    args.preventDefault();
}
function onSubmitClick() {
    if (formObject.validate()) {
        formObject.element.reset();
        dialogInstance.show();
    }
}
function onFileSelected(args) {
    const inputElement = document.getElementById('upload');
    inputElement.value = args.filesData[0].name;
}
return (<div className='control-pane'>
    <div className='control-section col-lg-12 uploadpreview'>
        <h4 className='form-title'>Photo Contest</h4>
        <div className='upload_wrapper'>
            <div className='control_wrapper' id='control_wrapper'>
                <form id='form1' method='post'>
                    <div className='form-group'>
                        <div className='e-float-input'>
                            <input type='text' id='name' name='name'
onFocus={floatFocus} onBlur={floatBlur} data-msg-containerid='nameError' />
                            <span className='e-float-line' />
                            <label className='e-float-text e-label-top'
htmlFor='name'>Name</label>
                        </div>
                        <div id='nameError' />
                    </div>
                    <div className='form-group'>
                        <div className='e-float-input'>
                            <input type='email' id='Email' name='email' data-msg-
containerid='mailError' />
                            <span className='e-float-line' />
                            <label className='e-float-text e-label-top'
htmlFor='email'>Email</label>
                        </div>
                        <div id='mailError' />
                    </div>
                    <div className='form-group'>
                        <div className='e-float-input'>

```

```

        <input type="text" id="mobilenumber" name="mobile" data-
msg-containerid="noError"/>
        <span className="e-float-line"/>
        <label className="e-float-text e-label-top"
htmlFor="mobile">Mobile no</label>
    </div>
    <div id="noError"/>
</div>
<div className="form-group">
    <div className="e-float-input upload-area">
        <input type="text" readOnly={true} id="upload"
name="upload" data-msg-containerid="uploadError"/>
        <button id="browse" className="e-control e-btn e-
info" onClick={onClick}>Browse..</button>
        <span className="e-float-line"/>
        <label className="e-float-text e-label-top">Choose a
file</label>
    </div>
    <div id="uploadError"/>
        <UploaderComponent id='fileUpload' type='file'
ref={upload => { uploadObj = upload; }} selected={onFileSelected =
onFileSelected.bind(this)} autoUpload={false} allowedExtensions='image/*'/>
    </div>
    <div className="form-group">
        <div className="e-float-input">
            <textarea className="address-field" id="Address"
name="Address"/>
            <span className="e-float-line"/>
            <label className="e-float-text e-label-
top">Address</label>
        </div>
    </div>
</form>
<div className="submitBtn">
    <button className="submit-btn e-btn"
onClick={onSubmitClick = onSubmitClick.bind(this)} id="submit-
btn">Submit</button>
</div>
<div id="confirmationDialog"/> </div>
</div>
<div>
    <DialogComponent id="defaultdialog" isModal={true} visible={false}
content='Your details has been updated successfully, Thank you'
animationSettings={animationSettings} width={'50%'} ref={dialog =>
dialogInstance = dialog} target={'control-section'}
overlayClick={onOverlayClick = onOverlayClick.bind(this)}/>
</div>;
}
ReactDOM.render(<Validation />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { select } from '@syncfusion/ej2-base';
import { FormValidator } from '@syncfusion/ej2-inputs';

```

```
import { FormValidatorModel } from '@syncfusion/ej2-inputs';
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from 'react-dom';

function Validation() {
    let uploadObj: UploaderComponent;
    let dialogInstance: DialogComponent;
    let formObject: FormValidator;
    const animationSettings: object = { effect: 'Zoom' };
    function floatFocus(args: React.FocusEvent): void {
        ((args.target as HTMLElement).parentElement as
        HTMLElement).classList.add('e-input-focus');
    }
    function floatBlur(args: any): void {
        ((args.target as HTMLElement).parentElement as
        HTMLElement).classList.remove('e-input-focus');
    }
    // Dialog will be closed, while clicking on overlay
    function onOverlayClick() {
        dialogInstance.hide();
    }
    React.useEffect(() => {
        const options: FormValidatorModel = {
            rules: {
                'email': {
                    required: [true, '* Enter your email']
                },
                'mobile': {
                    required: [true, '* Enter your mobile number']
                },
                'name': {
                    required: [true, '* Enter your name']
                },
                'upload': {
                    required: [true, '* Select any file']
                }
            }
        };
        formObject = new FormValidator('#form1', options);
    }, []);
    function onClick(args: React.MouseEvent) {
        const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
        document) as HTMLElement;
        wrapperEle.click();
        args.preventDefault();
    }
    function onSubmitClick(): void {
        if(formObject.validate()) {
            formObject.element.reset();
            dialogInstance.show();
        }
    }
    function onFileSelected(args: SelectedEventArgs) : void {
        const inputElement:HTMLInputElement = document.getElementById('upload')
        as HTMLInputElement;
    }
}
```

```

    inputElement.value = args.filesData[0].name;
  }
  return (
    <div className = 'control-pane'>
      <div className='control-section col-lg-12 uploadpreview'>
        <h4 className="form-title">Photo Contest</h4>
        <div className='upload_wrapper'>
          <div className="control_wrapper" id="control_wrapper">
            <form id="form1" method="post">
              <div className="form-group" >
                <div className="e-float-input">
                  <input type="text" id="name" name="name" onFocus=
{floatFocus} onBlur= {floatBlur} data-msg-containerid="nameError" />
                  <span className="e-float-line"/>
                  <label className="e-float-text e-label-top"
htmlFor="name">Name</label>
                </div>
                <div id="nameError"/>
              </div>
              <div className="form-group">
                <div className="e-float-input">
                  <input type="email" id="Email" name="email" data-msg-
containerid="mailError"/>
                  <span className="e-float-line"/>
                  <label className="e-float-text e-label-top"
htmlFor="email" >Email</label>
                </div>
                <div id="mailError"/>
              </div>
              <div className="form-group" >
                <div className="e-float-input">
                  <input type="text" id="mobilen" name="mobile" data-
msg-containerid="noError" />
                  <span className="e-float-line"/>
                  <label className="e-float-text e-label-top"
htmlFor="mobile" >Mobile no</label>
                </div>
                <div id="noError"/>
              </div>
              <div className="form-group" >
                <div className="e-float-input upload-area">
                  <input type="text" readOnly={true} id="upload"
name="upload" data-msg-containerid="uploadError"/>
                  <button id="browse" className="e-control e-btn e-
info" onClick={onClick}>Browse..</button>
                  <span className="e-float-line"/>
                  <label className="e-float-text e-label-top">Choose a
file</label>
                </div>
                <div id="uploadError"/>
                <UploaderComponent id='fileUpload' type = 'file' ref
= {upload => {uploadObj = upload !}}
                  selected={onFileSelected=onFileSelected.bind(this)}
                  autoUpload = {false}
                  allowedExtensions= 'image/*' />
                </div>
              </div>
            </form>
          </div>
        </div>
      </div>
    )
  )

```

```

        <div className="e-float-input">
            <textarea className="address-field" id="Address"
name="Address"/>
            <span className="e-float-line"/>
            <label className="e-float-text e-label-top"
>Address</label>
        </div>
    </div>
</form>
    <div className="submitBtn">
        <button className="submit-btn e-btn"
onClick={onSubmitClick = onSubmitClick.bind(this)} id="submit-
btn">Submit</button>
    </div>
    <div id="confirmationDialog"/> </div>
</div>
    <DialogComponent id="defaultdialog" isModal={true} visible ={false}
content = 'Your details has been updated successfully, Thank you'
animationSettings={animationSettings} width={'50%'} ref={dialog =>
dialogInstance = dialog!}
    target={'.control-section'}
overlayClick={onOverlayClick=onOverlayClick.bind(this)} />
</div>
)
}
ReactDOM.render(<Validation />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Template in React Uploader component

You can customize the default appearance of the uploader using a template along with buttons.

File list template

The **template** property is used to customize the default appearance of each file in the list. It can be represented as the HTML element or string. The selected or dropped files are displayed as per the template layout provided. The remove and progress bar action is handled using the corresponding events when the template is defined.

For example, you can display file type icon along with the default UI elements.

[Class-component]

INDEX.JSX

```

{% raw %}
import { detach, select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    path = {

```

```

        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreated() {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    dropAreaClick(args) {
        const target = args.target;
        if (target.classList.contains('e-file-delete-btn')) {
            for (const i of this.uploadObj.getFilesData()) {
                if (target.closest('li').getAttribute('data-file-name') ===
i.name) {
this.uploadObj.remove(this.uploadObj.getFilesData()[this.uploadObj.getFilesDa
ta().indexOf(i)]);
                }
            }
        }
        else if (target.classList.contains('e-file-remove-btn')) {
            detach(target.closest('li'));
        }
    }
    browseClick(args) {
        const wrapperEle = select('.e-file-select-wrap button', document);
        wrapperEle.click();
        args.preventDefault();
    }
    onFileUpload(args) {
        const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
        const progressValue = Math.round((args.e.loaded / args.e.total) *
100);
        li.getElementsByTagName('progress')[0].value = progressValue;
        li.getElementsByClassName('percent')[0].textContent =
progressValue.toString() + " %";
    }
    onuploadSuccess(args) {
        if (args.operation === 'remove') {
            let height = this.dropAreaRef.style.height;
            height = (parseInt(height, 10) - 40) + 'px';
            this.dropAreaRef.style.height = height;
        }
        else {
            const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
            const progressBar = li.getElementsByTagName('progress')[0];
            progressBar.classList.add('e-upload-success');
            li.getElementsByClassName('percent')[0].classList.add('e-upload-
success');
            const height = this.dropAreaRef.style.height;
            this.dropAreaRef.style.height = parseInt(height, 10) - 15 + 'px';
        }
    }
}

```

```

onSelect(args) {
    const length = args.filesData.length;
    let height = this.dropAreaRef.style.height;
    height = parseInt(height, 10) + (length * 55) + 'px';
    this.dropAreaRef.style.height = height;
}
onuploadFailed(args) {
    const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"]');
    const progressBar = li.getElementsByTagName('progress')[0];
    progressBar.classList.add('e-upload-failed');
    li.getElementsByClassName('percent')[0].classList.add('e-upload-
failed');
}
uploaderTemplate(data) {
    return (<div>
        <span className='wrapper'>
            <span className={ 'icon template-icons sf-icon-
${data.type}' }/>
            <span className='name file-name'>{data.name}</span>
        </span>
        <span className='file-size-td file-size'>{data.size}
bytes</span>
        <span className='e-icons e-file-remove-btn' title='Remove' />
    <br />
        <progress id='progressBar' className='progressbar' value='0'
max='100' />
        <span className='percent-td percent' />
    </div>);
}
render() {
    return (<div id='dropArea' onClick={this.dropAreaClick =
this.dropAreaClick.bind(this)} ref={dropEle => { this.dropAreaRef = dropEle;
}}>
        <span id='drop'> Drop files here or <a href="" id='browse'
onClick={this.browseClick = this.browseClick.bind(this)}><u>Browse</u></a>
    </span>
        <UploaderComponent id='UploadFiles' ref={upload => {
this.uploadObj = upload; }} asyncSettings={this.path}
progress={this.onFileUpload = this.onFileUpload.bind(this)}
selected={this.onSelect = this.onSelect.bind(this)}
success={this.onuploadSuccess = this.onuploadSuccess.bind(this)}
failure={this.onuploadFailed = this.onuploadFailed.bind(this)}
template={this.uploaderTemplate} created={this.onCreated =
this.onCreated.bind(this)} />
    </div>);
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { detach, select } from '@syncfusion/ej2-base';

```



```
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public dropAreaClick(args: React.MouseEvent): void {
        const target: any = args.target as HTMLElement;
        if (target.classList.contains('e-file-delete-btn')) {
            for (const i of this.uploadObj.getFilesData()) {
                if (target.closest('li').getAttribute('data-file-name') ===
i.name) {
                    this.uploadObj.remove(this.uploadObj.getFilesData()[this.uploadObj.getFilesData().indexOf(i)]);
                }
            }
            else if (target.classList.contains('e-file-remove-btn')) {
                detach(target.closest('li'));
            }
        }
        public browseClick(args: React.MouseEvent): any {
            const wrapperEle: HTMLElement = select('.e-file-select-wrap
button', document) as HTMLElement;
            wrapperEle.click();
            args.preventDefault();
        }
        public onFileUpload(args: any): void {
            const li: HTMLElement = this.dropAreaRef.querySelector('[data-
file-name="' + args.file.name + '"]') as any;
            const progressValue: number = Math.round((args.e.loaded /
args.e.total) * 100);
            li.getElementsByTagName('progress')[0].value = progressValue;
            li.getElementsByClassName('percent')[0].textContent =
progressValue.toString() + " %";
        }
        public onuploadSuccess(args: any): void {
            if (args.operation === 'remove') {
                let height: any = this.dropAreaRef.style.height;
                height = (parseInt(height, 10) - 40) + 'px';
                this.dropAreaRef.style.height = height;
            } else {
                const li: HTMLElement =
this.dropAreaRef.querySelector('[data-file-name="' + args.file.name + '"]')
as any;
            }
        }
    }
}
```

```

        const progressBar: HTMLElement =
li.getElementsByTagName('progress')[0];
        progressBar.classList.add('e-upload-success');
        li.getElementsByClassName('percent')[0].classList.add('e-
upload-success');
        const height: any = this.dropAreaRef.style.height;
        this.dropAreaRef.style.height = parseInt(height, 10) - 15 +
'px';
    }
}
public onSelect(args: SelectedEventArgs): void {
    const length: number = args.filesData.length;
    let height: any = this.dropAreaRef.style.height;
    height = parseInt(height, 10) + (length * 55) + 'px';
    this.dropAreaRef.style.height = height;
}
public onuploadFailed(args: any): void {
    const li: HTMLElement = this.dropAreaRef.querySelector('[data-
file-name="' + args.file.name + '"]') as any;
    const progressBar: HTMLElement =
li.getElementsByTagName('progress')[0];
    progressBar.classList.add('e-upload-failed');
    li.getElementsByClassName('percent')[0].classList.add('e-upload-
failed');
}
public uploaderTemplate(data: any): JSX.Element {
    return (
        <div>
            <span className='wrapper'>
                <span className={ 'icon template-icons sf-icon-${data.type}' }
/>
                <span className='name file-name'>{data.name}</span>
            </span>
            <span className='file-size-td file-size'>{data.size}
bytes</span>
            <span className='e-icons e-file-remove-btn' title='Remove' />
<br/>
            <progress id='progressBar' className='progressbar' value='0'
max='100' />
            <span className='percent-td percent' />
        </div>);
}
public render(): JSX.Element{
    return (
        <div id='dropArea' onClick={this.dropAreaClick =
this.dropAreaClick.bind(this)} ref={dropEle => {this.dropAreaRef =
dropEle!}}>
            <span id='drop'> Drop files here or <a href="" id='browse'
onClick={this.browseClick = this.browseClick.bind(this)}><u>Browse</u></a>
</span>
            <UploaderComponent id='UploadFiles' ref = {upload =>
{this.uploadObj = upload !}} asyncSettings={this.path}
progress={this.onFileUpload = this.onFileUpload.bind(this)}
selected={this.onSelect = this.onSelect.bind(this)}
success={this.onuploadSuccess = this.onuploadSuccess.bind(this)}
failure={this.onuploadFailed = this.onuploadFailed.bind(this)}

```

```
template={this.uploaderTemplate} created={this.onCreated =
  this.onCreated.bind(this) }/>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

[Functional-component]

INDEX.JSX

```
{% raw %}
import { detach, select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  let uploadObj;
  const path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  let dropAreaRef;
  function onCreated() {
    uploadObj.dropArea = dropAreaRef;
    uploadObj.dataBind();
  }
  function dropAreaClick(args) {
    const target = args.target;
    if (target.classList.contains('e-file-delete-btn')) {
      for (const i of uploadObj.getFilesData()) {
        if (target.closest('li').getAttribute('data-file-name') ===
i.name) {
uploadObj.remove(uploadObj.getFilesData()[uploadObj.getFilesData().indexOf(i)
]);
        }
      }
    }
    else if (target.classList.contains('e-file-remove-btn')) {
      detach(target.closest('li'));
    }
  }
  function browseClick(args) {
    const wrapperEle = select('.e-file-select-wrap button', document);
    wrapperEle.click();
    args.preventDefault();
  }
  function onFileUpload(args) {
    const li = dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"]');
    const progressValue = Math.round((args.e.loaded / args.e.total) *
100);
```

```

        li.getElementsByTagName('progress')[0].value = progressValue;
        li.getElementsByClassName('percent')[0].textContent =
progressValue.toString() + " %";
    }
    function onuploadSuccess(args) {
        if (args.operation === 'remove') {
            let height = dropAreaRef.style.height;
            height = (parseInt(height, 10) - 40) + 'px';
            dropAreaRef.style.height = height;
        }
        else {
            const li = dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
            const progressBar = li.getElementsByTagName('progress')[0];
            progressBar.classList.add('e-upload-success');
            li.getElementsByClassName('percent')[0].classList.add('e-upload-
success');
            const height = dropAreaRef.style.height;
            dropAreaRef.style.height = parseInt(height, 10) - 15 + 'px';
        }
    }
    function onSelect(args) {
        const length = args.filesData.length;
        let height = dropAreaRef.style.height;
        height = parseInt(height, 10) + (length * 55) + 'px';
        dropAreaRef.style.height = height;
    }
    function onuploadFailed(args) {
        const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
        const progressBar = li.getElementsByTagName('progress')[0];
        progressBar.classList.add('e-upload-failed');
        li.getElementsByClassName('percent')[0].classList.add('e-upload-
failed');
    }
    function uploaderTemplate(data) {
        return (<div>
            <span className='wrapper'>
                <span className={ 'icon template-icons sf-icon-
${data.type}} />
                <span className='name file-name'>{data.name}</span>
            </span>
            <span className='file-size-td file-size'>{data.size}
bytes</span>
            <span className='e-icons e-file-remove-btn' title='Remove' />
<br />
            <progress id='progressBar' className='progressbar' value='0'
max='100' />
            <span className='percent-td percent' />
        </div>);
    }
    return (<div id='dropArea' onClick={dropAreaClick =
dropAreaClick.bind(this)} ref={dropEle => { dropAreaRef = dropEle; }}>
        <span id='drop'> Drop files here or <a href="" id='browse'
onClick={browseClick = browseClick.bind(this)}><u>Browse</u></a> </span>
        <UploaderComponent id='UploadFiles' ref={upload => {
uploadObj = upload; }} asyncSettings={path} progress={onFileUpload =

```

```
onFileUpload.bind(this) } selected={onSelect = onSelect.bind(this) }
success={onuploadSuccess = onuploadSuccess.bind(this) }
failure={onuploadFailed = onuploadFailed.bind(this) }
template={uploaderTemplate} created={onCreated = onCreated.bind(this) }/>
    </div>;
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import { detach, select } from '@syncfusion/ej2-base';
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-
inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj: UploaderComponent;
    const path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    let dropAreaRef: HTMLElement;
    function onCreated(): void {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    function dropAreaClick(args: React.MouseEvent): void {
        const target: any = args.target as HTMLElement;
        if (target.classList.contains('e-file-delete-btn')) {
            for (const i of uploadObj.getFilesData()) {
                if (target.closest('li').getAttribute('data-file-name') ===
i.name) {
uploadObj.remove(uploadObj.getFilesData()[uploadObj.getFilesData().indexOf(i)
]);
                }
            }
        } else if (target.classList.contains('e-file-remove-btn')) {
            detach(target.closest('li'));
        }
    }
    function browseClick(args: React.MouseEvent): any {
        const wrapperEle: HTMLElement = select('e-file-select-wrap
button', document) as HTMLElement;
        wrapperEle.click();
        args.preventDefault();
    }
    function onFileUpload(args: any): void {
        const li: HTMLElement = dropAreaRef.querySelector('[data-file-
name="' + args.file.name + '"]') as any;
        const progressValue: number = Math.round((args.e.loaded /
args.e.total) * 100);
```

```

        li.getElementsByTagName('progress')[0].value = progressValue;
        li.getElementsByClassName('percent')[0].textContent =
progressValue.toString() + " %";
    }
    function onuploadSuccess(args: any): void {
        if (args.operation === 'remove') {
            let height: any = dropAreaRef.style.height;
            height = (parseInt(height, 10) - 40) + 'px';
            dropAreaRef.style.height = height;
        } else {
            const li: HTMLElement = dropAreaRef.querySelector('[data-
file-name="' + args.file.name + '"') as any;
            const progressBar: HTMLElement =
li.getElementsByTagName('progress')[0];
            progressBar.classList.add('e-upload-success');
            li.getElementsByClassName('percent')[0].classList.add('e-
upload-success');
            const height: any = dropAreaRef.style.height;
            dropAreaRef.style.height = parseInt(height, 10) - 15 + 'px';
        }
    }
    function onSelect(args: SelectedEventArgs): void {
        const length: number = args.filesData.length;
        let height: any = dropAreaRef.style.height;
        height = parseInt(height, 10) + (length * 55) + 'px';
        dropAreaRef.style.height = height;
    }
    function onuploadFailed(args: any): void {
        const li: HTMLElement = this.dropAreaRef.querySelector('[data-
file-name="' + args.file.name + '"') as any;
        const progressBar: HTMLElement =
li.getElementsByTagName('progress')[0];
        progressBar.classList.add('e-upload-failed');
        li.getElementsByClassName('percent')[0].classList.add('e-upload-
failed');
    }
    function uploaderTemplate(data: any): JSX.Element {
        return (
            <div>
                <span className='wrapper'>
                    <span className={'icon template-icons sf-icon-${data.type}'}
/>
                    <span className='name file-name'>{data.name}</span>
                </span>
                <span className='file-size-td file-size'>{data.size}
bytes</span>
                <span className='e-icons e-file-remove-btn' title='Remove' />
                <br/>
                <progress id='progressBar' className='progressbar' value='0'
max='100' />
                <span className='percent-td percent' />
            </div>);
    }
    return (
        <div id='dropArea' onClick={dropAreaClick =
dropAreaClick.bind(this)} ref={dropEle => {dropAreaRef = dropEle!}}>

```

```

        <span id='drop'> Drop files here or <a href="" id='browse'
onClick={browseClick = browseClick.bind(this)}><u>Browse</u></a> </span>
        <UploaderComponent id='UploadFiles' ref = {upload =>
{uploadObj = upload !}} asyncSettings={path}
        progress={onFileUpload = onFileUpload.bind(this)}
selected={onSelect = onSelect.bind(this)} success={onuploadSuccess =
onuploadSuccess.bind(this)} failure={onuploadFailed =
onuploadFailed.bind(this)} template={uploaderTemplate} created={onCreated =
onCreated.bind(this)}/>
        </div>;
    }
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

Custom template

You can design the own template by preventing the default file list including buttons. When you use custom template to upload or remove the files, pass the custom UI argument as true to call **upload/remove** public method as follows:

- UploaderObj.**upload**(filesData, true);
- UploaderObj.**remove**(filesData, true);

Refer to the following code sample.

[Class-component]

INDEX.JSX

```

{% raw %}
import { createElement, detach, EventHandler, select } from '@syncfusion/ej2-
base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    parentElement;
    proxy;
    progressBarContainer;
    filesDetails = [];
    filesList = [];
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove/',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save/'
    };
    dropAreaEle;
    dropAreaRef;
    constructor(props) {
        super(props);
        this.removeFiles = this.removeFiles.bind(this);
    }
    onCreated() {
        this.uploadObj.dropArea = this.dropAreaRef;
    }
}

```



```

        this.uploadObj.dataBind();
    }
    browseClick(args) {
        const wrapperEle = select('.e-file-select-wrap button', document);
        wrapperEle.click();
        args.preventDefault();
    }
    onSuccess(args) {
        const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"]');
        if (args.operation === 'upload') {
            li.querySelector('.close-icon-container').classList.add('delete-
icon');
            detach(li.getElementsByTagName('progress')[0]);
            li.querySelector('.file-size').style.display = 'inline-block';
            li.querySelector('.file-name').style.color = 'green';
        }
        else {
            this.uploadObj.element.value = '';
            detach(li);
        }
        EventHandler.add(li.querySelector('.close-icon-container'), 'click',
this.removeFiles, this);
    }
    onFileSelect(args) {
        if ((this.dropAreaRef.querySelector('.upload-list-root')) === null) {
            this.parentElement = createElement('div', { className: 'upload-
list-root' });
            this.parentElement.appendChild(createElement('ul', { className:
'ul-element' }));
            this.dropAreaRef.appendChild(this.parentElement);
        }
        for (const i of args.filesData) {
            this.formSelectedData(i, this); // create the LI element for each
file Data
        }
        this.filesDetails = this.filesDetails.concat(args.filesData);
        this.uploadObj.upload(args.filesData, true);
        args.cancel = true;
    }
    formSelectedData(selectedFiles, proxy) {
        const liEle = createElement('li', { className: 'file-lists', attrs: {
'data-file-name': selectedFiles.name } });
        liEle.appendChild(createElement('span', { className: 'file-name ',
innerHTML: selectedFiles.name }));
        liEle.appendChild(createElement('span', { className: 'file-size ',
innerHTML: this.uploadObj.bytesToSize(selectedFiles.size) }));
        if (selectedFiles.statusCode === '1') {
            this.progressBarContainer = createElement('span', { className:
'progress-bar-container' });
            this.progressBarContainer.appendChild(createElement('progress', {
className: 'progress', attrs: { value: '0', max: '100' } }));
            liEle.appendChild(this.progressBarContainer);
        }
        else {
            liEle.querySelector('.file-name').classList.add('upload-fails');
        }
    }

```

```

        const closeIconContainer = createElement('span', { className: 'e-
icons close-icon-container' });
        EventHandler.add(closeIconContainer, 'click', this.removeFiles,
proxy);
        liEle.appendChild(closeIconContainer);
        document.querySelector('.ul-element').appendChild(liEle);
        this.filesList.push(liEle);
    }
    onFileUpload(args) {
        const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
        EventHandler.remove(li.querySelector('.close-icon-container'),
'click', this.removeFiles);
        const progressValue = Math.round((args.e.loaded / args.e.total) *
100);
        if (!isNaN(progressValue)) {
            li.getElementsByTagName('progress')[0].value = progressValue; //
Updating the progress bar value
        }
    }
    onUploadFailed(args) {
        const li = this.dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
        EventHandler.add(li.querySelector('.close-icon-container'), 'click',
this.removeFiles, this);
        li.querySelector('.file-name ').classList.add('upload-fails');
        if (args.operation === 'upload') {
            detach(li.querySelector('.progress-bar-container'));
        }
    }
    removeFiles(args) {
        const status =
this.filesDetails[this.filesList.indexOf(args.currentTarget.parentElement)].s
tatusCode;
        if (status === '2') {
this.uploadObj.remove(this.filesDetails[this.filesList.indexOf(args.currentTa
rget.parentElement)]);
        }
        else {
            detach(args.currentTarget.parentElement);
        }
    }
    onFileRemove(args) {
        args.postRawFile = false;
    }
    render() {
        return (<div id='dropArea' className='dropArea' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
            <span id='drop' className='file-name-span drop'> Drop files here
or <a href="" id='browse' onClick={this.browseClick =
this.browseClick.bind(this)}><u>Browse</u></a> </span>
            <UploaderComponent id='fileUpload' type='file' ref={upload => {
this.uploadObj = upload; }} asyncSettings={this.path} success={this.onSuccess
= this.onSuccess.bind(this)} selected={this.onFileSelect =
this.onFileSelect.bind(this)} progress={this.onFileUpload =
this.onFileUpload.bind(this)} failure={this.onUploadFailed =

```

```

    this.onUploadFailed.bind(this) } created={this.onCreated =
    this.onCreated.bind(this) } removing={this.onFileRemove =
    this.onFileRemove.bind(this) }/>
    </div>;
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { createElement, detach, EventHandler, select } from
 '@syncfusion/ej2-base';
import { FileInfo, RemovingEventArgs, SelectedEventArgs, UploaderComponent }
 from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component<{}, {}> {
  public uploadObj: UploaderComponent;
  public parentElement : HTMLElement; public proxy : any; public
 progressBarContainer : HTMLElement;
  public filesDetails : FileInfo[] = [];
  public fileList: HTMLElement[] = [];
  public path: object = {
    removeUrl:
 'https://services.syncfusion.com/react/production/api/FileUploader/Remove/',
    saveUrl:
 'https://services.syncfusion.com/react/production/api/FileUploader/Save/'
  }
  public dropAreaEle: HTMLElement;
  public dropAreaRef: HTMLElement;
  constructor(props: any) {
    super(props)
    this.removeFiles = this.removeFiles.bind(this);
  }
  public onCreated(): void {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  public browseClick(args: React.MouseEvent): any {
    const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
 document) as HTMLElement;
    wrapperEle.click();
    args.preventDefault();
  }
  public onSuccess(args: any) : void {
    const li: any = this.dropAreaRef.querySelector('[data-file-name="' +
 args.file.name + '"]') as HTMLElement;
    if (args.operation === 'upload') {
      li.querySelector('.close-icon-container').classList.add('delete-
 icon');
      detach(li.getElementsByTagName('progress')[0]);
      (li.querySelector('.file-size') as HTMLElement).style.display =
 'inline-block';
    }
  }
}

```

```

        (li.querySelector('.file-name') as HTMLElement).style.color =
'green';
    } else {
        this.uploadObj.element.value = '';
        detach(li);
    }
    EventHandler.add(li.querySelector('.close-icon-container'), 'click',
this.removeFiles, this);
}
    public onFileSelect(args : SelectedEventArgs) : void {
        if ((this.dropAreaRef.querySelector('.upload-list-root')) === null)
        {
            this.parentElement = createElement('div', { className: 'upload-
list-root' });
            this.parentElement.appendChild(createElement('ul', {className:
'ul-element' }));
            this.dropAreaRef.appendChild(this.parentElement);
        }
        for (const i of args.filesData) {
            this.formSelectedData(i, this); // create the LI element for
each file Data
        }
        this.filesDetails = this.filesDetails.concat(args.filesData);
        this.uploadObj.upload(args.filesData, true);
        args.cancel = true;
    }
    public formSelectedData ( selectedFiles : FileInfo, proxy: any ) : void {
        const liEle : any = createElement('li', { className: 'file-lists',
attrs: { 'data-file-name' : selectedFiles.name } });
        liEle.appendChild(createElement('span', {className: 'file-name ',
innerHTML: selectedFiles.name }));
        liEle.appendChild(createElement('span', {className: 'file-size ',
innerHTML: this.uploadObj.bytesToSize(selectedFiles.size) }));
        if (selectedFiles.statusCode === '1') {
            this.progressBarContainer = createElement('span', {className:
'progress-bar-container'});
            this.progressBarContainer.appendChild(createElement('progress',
{className: 'progress', attrs: {value : '0', max : '100'}} ));
            liEle.appendChild(this.progressBarContainer);
        } else { liEle.querySelector('.file-name').classList.add('upload-
fails'); }
        const closeIconContainer : HTMLElement = createElement('span',
{className: 'e-icons close-icon-container'});
        EventHandler.add(closeIconContainer, 'click', this.removeFiles,
proxy);
        liEle.appendChild(closeIconContainer);
        (document as any).querySelector('.ul-element').appendChild(liEle);
        this.filesList.push(liEle);
    }
    public onFileUpload(args : any) : void {
        const li : any = this.dropAreaRef.querySelector('[data-file-name="'
+ args.file.name + '" ]');
        EventHandler.remove(li.querySelector('.close-icon-container'),
'click', this.removeFiles);
        const progressValue : number = Math.round((args.e.loaded /
args.e.total) * 100);
        if (!isNaN(progressValue)) {

```

```

        li.getElementsByTagName('progress')[0].value = progressValue;
    // Updating the progress bar value
    }
}

public onUploadFailed(args : any) : void {
    const li : any = this.dropAreaRef.querySelector('[data-file-name="'
+ args.file.name + '"]');
    EventHandler.add(li.querySelector('.close-icon-container'), 'click',
this.removeFiles, this);
    li.querySelector('.file-name ').classList.add('upload-fails');
    if (args.operation === 'upload') {
        detach(li.querySelector('.progress-bar-container'));
    }
}

public removeFiles(args : React.MouseEvent) : void {
    const status : string =
this.filesDetails[this.filesList.indexOf((args.currentTarget as
HTMLElement).parentElement as HTMLElement)].statusCode;
    if (status === '2') {

this.uploadObj.remove(this.filesDetails[this.filesList.indexOf((args.currentT
arget as HTMLElement).parentElement as HTMLElement)]);
    } else {
        detach((args.currentTarget as HTMLElement).parentElement as
HTMLElement);
    }
}

public onFileRemove(args: RemovingEventArgs): void {
    args.postRawFile = false;
}

public render(): JSX.Element{
    return (
        <div id='dropArea' className='dropArea' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle!}>
            <span id='drop' className='file-name-span drop'> Drop files here
or <a href="" id='browse' onClick={this.browseClick =
this.browseClick.bind(this)}><u>Browse</u></a> </span>
            <UploaderComponent id='fileUpload' type = 'file' ref = {upload
=> {this.uploadObj = upload !}}
                asyncSettings = {this.path}
                success={ this.onSuccess = this.onSuccess.bind(this) }
                selected= { this.onFileSelect = this.onFileSelect.bind(this) }
                progress = {this.onFileUpload = this.onFileUpload.bind(this) }
                failure = { this.onUploadFailed =
this.onUploadFailed.bind(this) } created={this.onCreated =
this.onCreated.bind(this)} removing={this.onFileRemove =
this.onFileRemove.bind(this) }/>
            </div>;
        )
    }
}

ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

[Functional-component]

INDEX.JSX

```
{% raw %}
import { createElement, detach, EventHandler, select } from '@syncfusion/ej2-
base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj;
    let dropAreaRef;
    let filesDetails = [];
    let filesList = [];
    let path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove/',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save/',
    };
    removeFiles = removeFiles.bind(this);
    function onCreated() {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    function browseClick(args) {
        const wrapperEle = select('.e-file-select-wrap button', document);
        wrapperEle.click();
        args.preventDefault();
    }
    function onSuccess(args) {
        const li = dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"');
        if (args.operation === 'upload') {
            li.querySelector('.close-icon-container').classList.add('delete-
icon');
            detach(li.getElementsByTagName('progress')[0]);
            li.querySelector('.file-size').style.display = 'inline-block';
            li.querySelector('.file-name').style.color = 'green';
        }
        else {
            uploadObj.element.value = '';
            detach(li);
        }
        EventHandler.add(li.querySelector('.close-icon-container'), 'click',
removeFiles, this);
    }
    function onFileSelect(args) {
        if (dropAreaRef.querySelector('.upload-list-root') === null) {
            parentElement = createElement('div', {
                className: 'upload-list-root',
            });
            parentElement.appendChild(createElement('ul', { className: 'ul-
element' }));
            dropAreaRef.appendChild(parentElement);
        }
        for (const i of args.filesData) {
            formSelectedData(i, this); // create the LI element for each file
Data
        }
    }
}
```

```

        filesDetails = filesDetails.concat(args.filesData);
        uploadObj.upload(args.filesData, true);
        args.cancel = true;
    }
    function formSelectedData(selectedFiles, proxy) {
        const liEle = createElement('li', {
            className: 'file-lists',
            attrs: { 'data-file-name': selectedFiles.name },
        });
        liEle.appendChild(createElement('span', {
            className: 'file-name ',
            innerHTML: selectedFiles.name,
        }));
        liEle.appendChild(createElement('span', {
            className: 'file-size ',
            innerHTML: uploadObj.bytesToSize(selectedFiles.size),
        }));
        if (selectedFiles.statusCode === '1') {
            progressbarContainer = createElement('span', {
                className: 'progress-bar-container',
            });
            progressbarContainer.appendChild(createElement('progress', {
                className: 'progress',
                attrs: { value: '0', max: '100' },
            }));
            liEle.appendChild(progressbarContainer);
        }
        else {
            liEle.querySelector('.file-name').classList.add('upload-fails');
        }
        const closeIconContainer = createElement('span', {
            className: 'e-icons close-icon-container',
        });
        EventHandler.add(closeIconContainer, 'click', removeFiles, proxy);
        liEle.appendChild(closeIconContainer);
        document.querySelector('.ul-element').appendChild(liEle);
        fileList.push(liEle);
    }
    function onFileUpload(args) {
        const li = dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"]');
        EventHandler.remove(li.querySelector('.close-icon-container'),
'click', removeFiles);
        const progressValue = Math.round((args.e.loaded / args.e.total) *
100);
        if (!isNaN(progressValue)) {
            li.getElementsByTagName('progress')[0].value = progressValue; //
Updating the progress bar value
        }
    }
    function onUploadFailed(args) {
        const li = dropAreaRef.querySelector('[data-file-name="' +
args.file.name + '"]');
        EventHandler.add(li.querySelector('.close-icon-container'), 'click',
removeFiles, this);
        li.querySelector('.file-name ').classList.add('upload-fails');
        if (args.operation === 'upload') {

```



```

        detach(li.querySelector('.progress-bar-container'));
    }
}
function removeFiles(args) {
    const status =
filesDetails[filesList.indexOf(args.currentTarget.parentElement)]
        .statusCode;
    if (status === '2') {
uploadObj.remove(filesDetails[filesList.indexOf(args.currentTarget.parentElement)]);
    }
    else {
        detach(args.currentTarget.parentElement);
    }
}
function onFileRemove(args) {
    args.postRawFile = false;
}
return (<div id="dropArea" className="dropArea" ref={(dropAreaEle) =>
(dropAreaRef = dropAreaEle)}>
    <span id="drop" className="file-name-span drop">
        { ' ' }
        Drop files here or{ ' ' }
        <a href="" id="browse" onClick={(browseClick =
browseClick.bind(this))}>
            <u>Browse</u>
        </a>{ ' ' }
    </span>
    <UploaderComponent id="fileUpload" type="file" ref={(upload) => {
uploadObj = upload; }} asyncSettings={path} success={onSuccess =
onSuccess.bind(this)} selected={onFileSelect = onFileSelect.bind(this)}
progress={onFileUpload = onFileUpload.bind(this)} failure={onUploadFailed =
onUploadFailed.bind(this)} created={onCreated = onCreated.bind(this)}
removing={onFileRemove = onFileRemove.bind(this)}>/>
    </div>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { createElement, detach, EventHandler, select } from
 '@syncfusion/ej2-base';
import { FileInfo, RemovingEventArgs, SelectedEventArgs, UploaderComponent }
 from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    let uploadObj;
    let dropAreaRef;
    let filesDetails = [];
    let filesList = [];
    let path = {

```

```

        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove/',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save/',
    };
    removeFiles = removeFiles.bind(this);
    function onCreate() {
        uploadObj.dropArea = dropAreaRef;
        uploadObj.dataBind();
    }
    function browseClick(args) {
        const wrapperEle = select('.e-file-select-wrap button', document);
        wrapperEle.click();
        args.preventDefault();
    }
    function onSuccess(args) {
        const li = dropAreaRef.querySelector(
            '[data-file-name="' + args.file.name + '"]'
        );
        if (args.operation === 'upload') {
            li.querySelector('.close-icon-container').classList.add('delete-icon');
            detach(li.getElementsByTagName('progress')[0]);
            li.querySelector('.file-size').style.display = 'inline-block';
            li.querySelector('.file-name').style.color = 'green';
        } else {
            uploadObj.element.value = '';
            detach(li);
        }
        EventHandler.add(
            li.querySelector('.close-icon-container'),
            'click',
            removeFiles,
            this
        );
    }
}
function onFileSelect(args) {
    if (dropAreaRef.querySelector('.upload-list-root') === null) {
        parentElement = createElement('div', {
            className: 'upload-list-root',
        });
        parentElement.appendChild(
            createElement('ul', { className: 'ul-element' })
        );
        dropAreaRef.appendChild(parentElement);
    }
    for (const i of args.filesData) {
        formSelectedData(i, this); // create the LI element for each file Data
    }
    filesDetails = filesDetails.concat(args.filesData);
    uploadObj.upload(args.filesData, true);
    args.cancel = true;
}
function formSelectedData(selectedFiles, proxy) {
    const liEle = createElement('li', {
        className: 'file-lists',
        attrs: { 'data-file-name': selectedFiles.name },
    });

```

```

    liEle.appendChild(
      createElement('span', {
        className: 'file-name ',
        innerHTML: selectedFiles.name,
      })
    );
    liEle.appendChild(
      createElement('span', {
        className: 'file-size ',
        innerHTML: uploadObj.bytesToSize(selectedFiles.size),
      })
    );
    if (selectedFiles.statusCode === '1') {
      progressbarContainer = createElement('span', {
        className: 'progress-bar-container',
      });
      progressbarContainer.appendChild(
        createElement('progress', {
          className: 'progress',
          attrs: { value: '0', max: '100' },
        })
      );
      liEle.appendChild(progressbarContainer);
    } else {
      liEle.querySelector('.file-name').classList.add('upload-fails');
    }
    const closeIconContainer = createElement('span', {
      className: 'e-icons close-icon-container',
    });
    EventHandler.add(closeIconContainer, 'click', removeFiles, proxy);
    liEle.appendChild(closeIconContainer);
    document.querySelector('.ul-element').appendChild(liEle);
    fileList.push(liEle);
  }
  function onFileUpload(args) {
    const li = dropAreaRef.querySelector(
      '[data-file-name="' + args.file.name + '"]'
    );
    EventHandler.remove(
      li.querySelector('.close-icon-container'),
      'click',
      removeFiles
    );
    const progressValue = Math.round((args.e.loaded / args.e.total) * 100);
    if (!isNaN(progressValue)) {
      li.getElementsByTagName('progress')[0].value = progressValue; //
      Updating the progress bar value
    }
  }
  function onUploadFailed(args) {
    const li = dropAreaRef.querySelector(
      '[data-file-name="' + args.file.name + '"]'
    );
    EventHandler.add(
      li.querySelector('.close-icon-container'),
      'click',
      removeFiles,

```

```

        this
    );
    li.querySelector('.file-name ').classList.add('upload-fails');
    if (args.operation === 'upload') {
        detach(li.querySelector('.progress-bar-container'));
    }
}
function removeFiles(args) {
    const status =
        filesDetails[filesList.indexOf(args.currentTarget.parentElement)]
            .statusCode;
    if (status === '2') {
        uploadObj.remove(
            filesDetails[filesList.indexOf(args.currentTarget.parentElement)]
        );
    } else {
        detach(args.currentTarget.parentElement);
    }
}
function onFileRemove(args) {
    args.postRawFile = false;
}
return (
    <div
        id="dropArea"
        className="dropArea"
        ref={(dropAreaEle) => (dropAreaRef = dropAreaEle)}
    >
        <span id="drop" className="file-name-span drop">
            { ' ' }
            Drop files here or{ ' ' }
            <a href="" id="browse" onClick={ (browseClick =
browseClick.bind(this)) }>
                <u>Browse</u>
            </a>{ ' ' }
        </span>
        <UploaderComponent id="fileUpload" type="file" ref={ (upload) =>
{uploadObj = upload;}} asyncSettings={path}
            success={ (onSuccess = onSuccess.bind(this)) }
            selected={ (onFileSelect = onFileSelect.bind(this)) }
            progress={ (onFileUpload = onFileUpload.bind(this)) }
            failure={ (onUploadFailed = onUploadFailed.bind(this)) }
            created={ (onCreated = onCreated.bind(this)) }
            removing={ (onFileRemove = onFileRemove.bind(this)) } />
    </div>
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

See Also

- [Customize progress bar](#)
- [Customize button with HTML element](#)
- [Customize drop area](#)

Localization in React Uploader component

The Localization library allows you to localize static text content of the uploader. The static text contains default text content of action buttons, file status, clear icon title, tooltips, and text content of drag area. Define the locale object for a culture and assign it to L10n load method.

The following list of keys and its values which are used in the uploader component:

Key	Description
-----	-----
Browse	To customize the browse button text.
Clear	To customize the clear button text.
Upload	To customize the upload button text.
dropFilesHint	To customize the drop area text.
uploadFailedMessage	To customize the status text when the file is failed to upload.
uploadSuccessMessage	To customize the status text when the file is uploaded successfully.
removedSuccessMessage	To customize the status text when the file is removed the successfully from the serve.
removedFailedMessage	To customize the status text while the file is failed to remove.
inProgress	To customize the status text while the upload is in progress.
pauseUpload	To customize the status text while the uploading is paused.
fileUploadCancel	To customize the status text when uploading is cancelled.
readyToUploadMessage	To customize the status text when the file is selected and ready to upload.
invalidMaxFileSize	To customize the status text when the file size is greater than the maximum file size.
invalidFileType	To customize the status text when the file type is invalid.
invalidMinFileSize	To customize the status text when the file size is less than the minimum file size.
remove	To customize tooltip text for remove icon.
cancel	To customize tooltip text for cancel icon.
delete	To customize tooltip text for delete icon.
totalFiles	To customize tooltip text for total files.
size	To customize tooltip text for size.

[Class-component]

INDEX.JSX

```
import { L10n } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
    uploadObj;
    path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    componentWillMount() {
        L10n.load({
            "fr-CH": {
                "uploader": {
                    "Browse": "Feuilleter",
                    "Clear": "Clair",
                    "Upload": "Télécharger",
                    "cancel": "Annuler",
                    "delete": "Supprimer le fichier",
                    "totalFiles": "Total des fichiers",
                    "size": "taille",
                    "dropFilesHint": "ou Déposer des fichiers ici",
                    "inProgress": "Téléchargement",
                    "invalidFileType": "Le type de fichier n'est pas
autorisé",
                    "invalidMaxFileSize": "La taille du fichier dépasse 28
Mo",
                    "invalidMinFileSize": "La taille du fichier est trop
petite! S'il vous plaît télécharger des fichiers avec une taille minimale de
10 Ko",
                    "readyToUploadMessage": "Prêt à télécharger",
                    "remove": "Retirer",
                    "removedFailedMessage": "Le fichier n'a pas pu être
supprimé",
                    "removedSuccessMessage": "Fichier supprimé avec succès",
                    "uploadFailedMessage": "Impossible d'importer le
fichier",
                    "uploadSuccessMessage": "Fichier téléchargé avec succès",
                }
            }
        });
    }
    render() {
        return (<UploaderComponent asyncSettings={this.path} locale='fr-
CH' />);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { L10n } from '@syncfusion/ej2-base';
```

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}>, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public componentWillMount(): void {
        L10n.load({
            "fr-CH": {
                "uploader": {
                    "Browse" : "Feuilleter",
                    "Clear" : "Clair",
                    "Upload" : "Télécharger",
                    "cancel": "Annuler",
                    "delete": "Supprimer le fichier",
                    "totalFiles": "Total des fichiers",
                    "size": "taille",
                    "dropFilesHint" : "ou Déposer des fichiers ici",
                    "inProgress": "Téléchargement",
                    "invalidFileType" : "Le type de fichier n'est pas autorisé",
                    "invalidMaxFileSize" : "La taille du fichier dépasse 28 Mo",
                    "invalidMinFileSize" : "La taille du fichier est trop petite!
S'il vous plaît télécharger des fichiers avec une taille minimale de 10 Ko",
                    "readyToUploadMessage": "Prêt à télécharger",
                    "remove": "Retirer",
                    "removedFailedMessage": "Le fichier n'a pas pu être
supprimé",
                    "removedSuccessMessage": "Fichier supprimé avec succès",
                    "uploadFailedMessage" : "Impossible d'importer le fichier",
                    "uploadSuccessMessage" : "Fichier téléchargé avec succès",
                }
            }
        })
    }
    public render(): JSX.Element {
        return (
            <UploaderComponent asyncSettings = {this.path} locale = 'fr-CH' />
        );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { L10n } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
```

```

    let uploadObj;
    const path = {
      removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
      saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    React.useEffect(() => {
      L10n.load({
        "fr-CH": {
          "uploader": {
            "Browse": "Feuilleter",
            "Clear": "Clair",
            "Upload": "Télécharger",
            "cancel": "Annuler",
            "delete": "Supprimer le fichier",
            "totalFiles": "Total des fichiers",
            "size": "taille",
            "dropFilesHint": "ou Déposer des fichiers ici",
            "inProgress": "Téléchargement",
            "invalidFileType": "Le type de fichier n'est pas
autorisé",
            "invalidMaxFileSize": "La taille du fichier dépasse 28
Mo",
            "invalidMinFileSize": "La taille du fichier est trop
petite! S'il vous plaît télécharger des fichiers avec une taille minimale de
10 Ko",
            "readyToUploadMessage": "Prêt à télécharger",
            "remove": "Retirer",
            "removedFailedMessage": "Le fichier n'a pas pu être
supprimé",
            "removedSuccessMessage": "Fichier supprimé avec succès",
            "uploadFailedMessage": "Impossible d'importer le
fichier",
            "uploadSuccessMessage": "Fichier téléchargé avec succès",
          }
        }
      });
    }, []);
    return (<UploaderComponent asyncSettings={path} locale='fr-CH'/>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

INDEX.TSX

```

import { L10n } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  let uploadObj: UploaderComponent;
  const path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };

```



```

    }
    React.useEffect(() => {
      L10n.load({
        "fr-CH": {
          "uploader": {
            "Browse" : "Feuilleter",
            "Clear" : "Clair",
            "Upload" : "Télécharger",
            "cancel": "Annuler",
            "delete": "Supprimer le fichier",
            "totalFiles": "Total des fichiers",
            "size": "taille",
            "dropFilesHint" : "ou Déposer des fichiers ici",
            "inProgress": "Téléchargement",
            "invalidFileType" : "Le type de fichier n'est pas autorisé",
            "invalidMaxFileSize" : "La taille du fichier dépasse 28 Mo",
            "invalidMinFileSize" : "La taille du fichier est trop petite!
S'il vous plaît télécharger des fichiers avec une taille minimale de 10 Ko",
            "readyToUploadMessage": "Prêt à télécharger",
            "remove": "Retirer",
            "removedFailedMessage": "Le fichier n'a pas pu être
supprimé",
            "removedSuccessMessage": "Fichier supprimé avec succès",
            "uploadFailedMessage" : "Impossible d'importer le fichier",
            "uploadSuccessMessage" : "Fichier téléchargé avec succès",
          }
        }
      })
    }, []);
    return (
      <UploaderComponent asyncSettings = {path} locale = 'fr-CH' />
    );
  }
  ReactDOM.render(<App />, document.getElementById('fileupload'));

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Accessibility in React Uploader component

The Uploader component followed the accessibility guidelines and standards, including [ADA](#), [Section 508](#), [WCAG 2.2](#) standards, and [WCAG roles](#) that are commonly used to evaluate accessibility.

The accessibility compliance for the Uploader component is outlined below.

| Accessibility Criteria | Compatibility |

| -- | -- |

| [WCAG 2.2 Support](#) | |

| [Section 508 Support](#) | |

```
| Screen Reader Support |  |

| Right-To-Left Support |  |

| Color Contrast |  |

| Mobile Device Support |  |

| Keyboard Navigation Support |  |

| Accessibility Checker Validation |  |

| Axe-core Accessibility Validation |  |

<style>
.post .post-content img {
display: inline-block;
margin: 0.5em 0;
}
</style>

<div> - All
features of the component meet the requirement.</div>

<div> - Some features of the component do not meet the requirement.</div>

<div> - The component does not meet the requirement.</div>
```

Keyboard interaction

The following are the standard keys that works on uploader component.

| **Keyboard shortcuts** | **Actions** |

| --- | --- |

| **Tab** | Move focus to next element. |

| **Shift + Tab** | Move focus to previous element. |

| **Enter** | Triggers corresponding action to button element. |

| **Esc** | Close the file browser dialog alone and cancels the upload on drop the file. |

[Class-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    render() {
        return (<UploaderComponent autoUpload={false}
        asyncSettings={this.path}/>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}>, {}> {
    public path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public render() {
        return (
            <UploaderComponent autoUpload={false} asyncSettings={this.path} />
        );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

[Functional-component]

INDEX.JSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
    const path = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    return (<UploaderComponent autoUpload={false} asyncSettings={path}/>);
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

INDEX.TSX

```
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
function App() {
  const path: object = {
    removeUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
      'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  return (
    <UploaderComponent autoUpload={false} asyncSettings={path} />
  );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Ensuring accessibility

The Uploader component's accessibility levels are ensured through an [accessibility-checker](#) and [axe-core](#) software tools during automated testing.

The accessibility compliance of the Uploader component is shown in the following sample. Open the [sample](#) in a new window to evaluate the accessibility of the Uploader component with accessibility tools.

See also

- [Accessibility in Syncfusion React components](#)

Style appearance in React Uploader component

The following content provides the exact CSS structure that can be used to modify the control's appearance based on the user preference.

Customizing the appearance of File Upload wrapper element

Use the following CSS to customize the appearance of wrapper element.

```
`css
```

```
/ To specify height /
```

```
.e-upload.e-control-wrapper, .e-bigger.e-small .e-upload.e-control-wrapper {
```

```
height: 300px;
```

```
width: 300px;
```

```
}
```

```
`
```

Customizing the File Upload browse button

Use the following CSS to customize the File Upload browse button

```
`css
/ To specify font size and color /
.e-upload .e-file-select-wrap .e-btn, .e-upload .e-upload-actions .e-btn, .e-bigger.e-small .e-upload .e-
file-select-wrap .e-btn, .e-bigger.e-small .e-upload .e-upload-actions .e-btn {
font-family: cursive;
height: 40px;
background-color: aquamarine;
color: coral;
}
`
```

Customizing the File Upload content

Use the following CSS to customize the File Upload content

```
`css
/ To specify font size and color /
.e-upload .e-file-select-wrap .e-file-drop, .e-bigger.e-small .e-upload .e-file-select-wrap .e-file-drop {
font-size: 20px;
color: aqua;
}
`
```

Customizing the uploaded file container in File Upload

Use the following CSS to customize the uploaded file container in File Upload

```
`css
/ To specify background color /
.e-upload .e-upload-files .e-upload-file-list {
background-color: beige;
}
`
```

See Also

- [Customize the appearance of uploader using a template](#)

How To

Hide default drop area in React Uploader component

You can achieve this behavior by overriding the corresponding uploader styles. Override the following styles to hide the default drop area behavior.

- .e-upload.e-control
- .e-upload .e-file-select
- .e-upload .e-file-drop

INDEX.JSX

```
{% raw %}
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
export default class App extends React.Component {
    // Uploader component
    uploadObj;
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreated() {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    render() {
        return (<div className='control-pane'>
            <div className='control-section row uploadpreview'
ref={dropAreaEle => this.dropAreaRef = dropAreaEle}>
                <div className='col-lg-9'>
                    <div className='upload_wrapper'>
                        { /* Render Uploader */ }
                        <UploaderComponent id='fileUpload' type='file' ref={upload =>
{ this.uploadObj = upload; }} asyncSettings={this.path}
created={this.onCreated = this.onCreated.bind(this)} />
                    </div>
                </div>
            </div>
        </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import * as React from 'react';
import * as ReactDOM from "react-dom";
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
```

```

export default class App extends React.Component<{}, {}> {
  // Uploader component
  public uploadObj: UploaderComponent;
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  private dropAreaRef: HTMLElement;
  public onCreate(): void {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  public render(): JSX.Element {
    return (
      <div className = 'control-pane'>
        <div className='control-section row uploadpreview'
ref={dropAreaEle => this.dropAreaRef = dropAreaEle!}>
          <div className='col-lg-9'>
            <div className='upload_wrapper'>
              { /* Render Uploader */ }
              <UploaderComponent id='fileUpload' type='file' ref = {upload
=> {this.uploadObj = upload !}}
                asyncSettings = {this.path} created={this.onCreate =
this.onCreate.bind(this)}
              />
            </div>
          </div>
        </div>
      </div>
    )
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Preview images before uploading in React Uploader component

The uploader component allows to create preview images before uploading. The preview images can be created by reading the file using selected event. Also, the user can create preview images after uploading to server using success event. Refer to the following link to learn about how to create image preview.

[Image Preview](#)

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Achieve invisible upload in React Uploader component

You can achieve the invisible upload feature by using the selected event in uploader component. Refer to the following example.

INDEX.JSX

```
{% raw %}
import { createElement } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  dropAreaRef;
  previewRef;
  onCreate() {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  onupload(args) {
    for (const i of args.filesData) {
      const liparentDiv = createElement('div', { className: 'image-
list' });
      const liImage = createElement('img', { className: 'image' });
      liparentDiv.appendChild(liImage);
      this.readURL(liImage, i);
      this.previewRef.appendChild(liparentDiv);
    }
    args.cancel = true;
  }
  readURL(liImage, file) {
    const imgPreview = liImage;
    const imageFile = file.rawFile;
    const reader = new FileReader();
    reader.addEventListener('load', () => {
      imgPreview.src = reader.result;
    }, false);
    if (imageFile) {
      reader.readAsDataURL(imageFile);
    }
  }
  ;
  render() {
    return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
      <div className='control-section row uploadpreview'>
        <div className='col-lg-9'>
          <div className='upload_wrapper'>
            <div id='preview' ref={previewEle => this.previewRef = previewEle}/>
          </div>
        </div>
      </div>
    </div>);
  }
}
```



```

        <UploaderComponent id='fileUpload' type='file' ref={upload => {
this.uploadObj = upload; }} asyncSettings={this.path} selected={this.onupload
= this.onupload.bind(this)} locale={'en-US'} allowedExtensions='.png, .jpg,
.jpeg' created={this.onCreated = this.onCreated.bind(this)} />
        </div>
        </div>
        </div>
    </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { createElement } from '@syncfusion/ej2-base';
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-
inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    private previewRef: HTMLElement;
    public onCreated(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public onupload(args: SelectedEventArgs){
        for(const i of args.filesData){
            const liparentDiv = createElement('div', { className: 'image-
list'});
            const liImage = createElement('img', { className: 'image'});
            liparentDiv.appendChild(liImage);
            this.readURL(liImage, i);
            this.previewRef.appendChild(liparentDiv);
        }
        args.cancel=true;
    }
    public readURL(liImage: HTMLElement, file: any): void {
        const imgPreview: HTMLImageElement = liImage as HTMLImageElement;
        const imageFile: File = file.rawFile;
        const reader: FileReader = new FileReader();
        reader.addEventListener( 'load', () => {
            imgPreview.src = reader.result as string;
        }, false);
        if (imageFile) {
            reader.readAsDataURL(imageFile);
        }
    }
}

```

```

    };
    public render(): JSX.Element {
        return (
            <div className = 'control-pane' ref={dropAreaEle => this.dropAreaRef
= dropAreaEle!}>
                <div className='control-section row uploadpreview'>
                    <div className='col-lg-9'>
                        <div className='upload_wrapper'>
                            <div id='preview' ref={previewEle => this.previewRef = previewEle!}/>
                                { /* Render Uploader */ }
                            <UploaderComponent id='fileUpload' type='file' ref = {upload =>
{this.uploadObj = upload !}}
                                asyncSettings = {this.path}
                                selected={ this.onupload=this.onupload.bind(this)} locale= {'en-
US'} allowedExtensions= '.png, .jpg, .jpeg' created={this.onCreated =
this.onCreated.bind(this)} />
                            </div>
                        </div>
                    </div>
                </div>
            )
        )
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Customize progressbar in React Uploader component

You can customize the progress bar's size, color, and background by overriding the styles in uploader component. Refer to the following example.

INDEX.JSX

```

{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreated() {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    render() {
        return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>

```

```

        <div className='control-section row uploadpreview'>
        <div className='col-lg-9'>
        <div className='upload_wrapper custom_progress' id="container">
            { /* Render Uploader */ }
            <UploaderComponent id='fileUpload' type='file' ref={upload =>
{ this.uploadObj = upload; }} asyncSettings={this.path}
created={this.onCreated = this.onCreated.bind(this)} />
            </div>
        </div>
        </div>
    </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreated(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public render(): JSX.Element {
        return (
            <div className = 'control-pane' ref={dropAreaEle => this.dropAreaRef
= dropAreaEle!}>
                <div className='control-section row uploadpreview'>
                <div className='col-lg-9'>
                <div className='upload_wrapper custom_progress' id="container">
                    { /* Render Uploader */ }
                    <UploaderComponent id='fileUpload' type='file' ref = {upload
=> {this.uploadObj = upload !}}
                    asyncSettings = {this.path} created={this.onCreated =
this.onCreated.bind(this)}
                    />
                </div>
                </div>
                </div>
            </div>
        )
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));

```

```
{% endraw %}
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Sort the selected files in React Uploader component

You can sort the selected files in an uploader component by using the [selected](#) event. Refer to the following example.

In the following example, explains about how to sort the file list in uploader component.

INDEX.JSX

```
{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  initial = true;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  dropAreaRef;
  onCreate() {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  onSelect(args) {
    if (this.initial) {
      this.initial = false;
      return;
    }
    args.isModified = true;
    const oldFiles = this.uploadObj.GetFilesData();
    const filesData = args.filesData.concat(oldFiles);
    const modifiedData = this.sortFileList(filesData);
    args.modifiedFilesData = modifiedData;
  }
  sortFileList(filesData) {
    const files = filesData;
    const fileNames = [];
    for (const i of files) {
      fileNames.push(i.name);
    }
    const sortedFileNames = fileNames.sort();
    const sortedFilesData = [];
    for (const name of sortedFileNames) {
      for (const i of files) {
        if (name === i.name) {
          sortedFilesData.push(i);
        }
      }
    }
  }
}
```

```

    }
    }
    return sortedFilesData;
}
render() {
    return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
    <div className='control-section row uploadpreview'>
    <div className='col-lg-9'>
    <div className='upload_wrapper' id="container">
    <div id='preview' />
        { /* Render Uploader */ }
        <UploaderComponent id='fileUpload' type='file' ref={upload => {
this.uploadObj = upload; }} asyncSettings={this.path} selected={this.onSelect
= this.onSelect.bind(this)} created={this.onCreated =
this.onCreated.bind(this)} />
        </div>
        </div>
        </div>
    </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { FileInfo, SelectedEventArgs, UploaderComponent } from
'@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public initial: boolean = true;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public onSelect(args: SelectedEventArgs): void {
        if (this.initial) { this.initial = false; return; }
        args.isModified = true;
        const oldFiles: FileInfo[] = this.uploadObj.getFilesData();
        const filesData: FileInfo[] = args.filesData.concat(oldFiles);
        const modifiedData: FileInfo[] = this.sortFileList(filesData);
        args.modifiedFilesData = modifiedData;
    }
    public sortFileList(filesData: FileInfo[]): FileInfo[] {
        const files: FileInfo[] = filesData;

```

```

const fileNames: string[] = [];
for (const i of files) {
    fileNames.push(i.name);
}
const sortedFileNames: string[] = fileNames.sort();
const sortedFilesData: FileInfo[] = [];
for (const name of sortedFileNames) {
    for (const i of files) {
        if (name === i.name) {
            sortedFilesData.push(i);
        }
    }
}
return sortedFilesData;
}

public render(): JSX.Element {
    return (
        <div className = 'control-pane' ref={dropAreaEle => this.dropAreaRef =
dropAreaEle!}>
            <div className='control-section row uploadpreview'>
                <div className='col-lg-9'>
                    <div className='upload_wrapper' id="container">
                        <div id='preview'>
                            { /* Render Uploader */ }
                            <UploaderComponent id='fileUpload' type='file' ref = {upload =>
{this.uploadObj = upload !}}
                                asyncSettings = {this.path}
                                selected={this.onSelect=this.onSelect.bind(this)}
                                created={this.onCreated = this.onCreated.bind(this)}>
                                </div>
                                </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    );
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Get the total size of selected files in React Uploader component

You can get the total size of selected files before uploading it to the designated server. This can be achieved by using the selected event. Refer to the following example to calculate the total file size.

INDEX.JSX

```

{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    path = {

```

```

        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreate() {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    onSelect(args) {
        let totalSize = 0;
        for (const file of args.filesData) {
            totalSize = totalSize + file.size;
        }
        const size = this.uploadObj.bytesToSize(totalSize);
        alert("Total select file's size is " + size);
    }
    render() {
        return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
            <div className='control-section row uploadpreview'>
                <div className='col-lg-9'>
                    <div className='upload_wrapper'>
                        <div id='preview'>
                            <UploaderComponent id='fileUpload' type='file' ref={upload => {
this.uploadObj = upload; }} asyncSettings={this.path} selected={this.onSelect
= this.onSelect.bind(this)} created={this.onCreate =
this.onCreate.bind(this)} />
                        </div>
                    </div>
                </div>
            </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-
inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
    }
}

```

```

        this.uploadObj.dataBind();
    }
    public onSelect(args: SelectedEventArgs): void {
        let totalSize: number = 0;
        for (const file of args.filesData) {
            totalSize = totalSize + file.size;
        }
        const size: string = this.uploadObj.bytesToSize(totalSize);
        alert("Total select file's size is " + size);
    }
    public render(): JSX.Element {
        return (
            <div className = 'control-pane' ref={dropAreaEle => this.dropAreaRef
= dropAreaEle!}>
                <div className='control-section row uploadpreview'>
                    <div className='col-lg-9'>
                        <div className='upload_wrapper'>
                            <div id='preview' />
                                <UploaderComponent id='fileUpload' type='file' ref = {upload =>
{this.uploadObj = upload !}}
                                    asyncSettings = {this.path}
                                    selected={ this.onSelect=this.onSelect.bind(this)}
                                    created={this.onCreated = this.onCreated.bind(this)} />
                                </div>
                            </div>
                        </div>
                    </div>
                </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Customize button with html element in React Uploader component

The uploader component allows you to customize the action buttons by using the [buttons](#) property. Refer to the following example.

INDEX.JSX

```

{% raw %}
import { createElement } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
    uploadObj;
    uploadEle = createElement('span', { className: 'upload e-icons',
innerHTML: 'Upload All' });
    clearEle = createElement('span', { className: 'remove e-icons',
innerHTML: 'Clear All' });
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    }
}

```



```

        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    dropAreaRef;
    onCreate() {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    render() {
        return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
            <div className='control-section row uploadpreview'>
                <div className='col-lg-9'>
                    <div className='upload_wrapper'>
                        <div id='preview'>
                            { /* Render Uploader */ }
                            <UploaderComponent id='fileUpload' type='file'
ref={upload => { this.uploadObj = upload; }} asyncSettings={this.path}
autoUpload={false} buttons={{ browse: 'Choose file', clear: this.clearEle,
upload: this.uploadEle }} created={this.onCreate =
this.onCreate.bind(this)}>/>
                        </div>
                    </div>
                </div>
            </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { createElement } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public uploadEle: HTMLElement = createElement('span', { className: 'upload
e-icons', innerHTML : 'Upload All' });
    public clearEle: HTMLElement = createElement('span', { className: 'remove
e-icons', innerHTML : 'Clear All' });
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public render(): JSX.Element {
        return (

```

```

        <div className = 'control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle!}>
          <div className='control-section row uploadpreview'>
            <div className='col-lg-9'>
              <div className='upload_wrapper'>
                <div id='preview'>
                  { /* Render Uploader */ }
                  <UploaderComponent id='fileUpload' type='file' ref =
{upload => {this.uploadObj = upload !}}
                    asyncSettings = {this.path}
                    autoUpload={false} buttons={ { browse: 'Choose file', clear:
this.clearEle, upload: this.uploadEle } } created={this.onCreated =
this.onCreated.bind(this)} />
                </div>
              </div>
            </div>
          </div>);
      }
    }
    ReactDOM.render(<App />, document.getElementById('fileupload'));
    {% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Add confirm dialog to remove the files in React Uploader component

You can customize the uploader component using confirm dialog before removing the files. Here, ej2 dialog is used as confirm dialog. Refer to the following example.

INDEX.JSX

```

{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  dialog;
  removeFile = [];
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  buttons = [{ buttonModel: { content: 'OK', isPrimary: 'true' }, 'click':
() => {
    this.dialog.hide();
    this.uploadObj.remove(this.removeFile[0], false, true);
  } },
    { 'click': () => { this.dialog.hide(); }, buttonModel: { content:
'Cancel', cssClass: 'e-flat' } } ]];
  dropAreaRef;
  onCreated() {

```

```

        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    onremove(args) {
        this.removeFile = [];
        args.cancel = true;
        this.removeFile.push(args.filesData);
        this.dialog.show();
    }
    render() {
        return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
            <div className='control-section row uploadpreview'>
                <div className='col-lg-9'>
                    <div className='upload_wrapper'>
                        <div id='preview'>
                            /* Render Uploader */
                            <UploaderComponent id='fileUpload' type='file' ref={upload =>
{ this.uploadObj = upload; }} asyncSettings={this.path}
removing={this.onremove = this.onremove.bind(this)} created={this.onCreated =
this.onCreated.bind(this)}>
                                <div id='targetElement' style={{ minHeight: '200px' }}>
                                    <DialogComponent id="defaultdialog" content={"Are you sure
want to remove the file?"} width={'300px'} ref={dialog => this.dialog =
dialog} target={'#targetElement'} visible={false} buttons={this.buttons}>
                                        </div>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { FileInfo, SelectedEventArgs, UploaderComponent } from
'@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public dialog: DialogComponent;
    public removeFile: FileInfo[] = [];
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private buttons: object = [{buttonModel: { content: 'OK', isPrimary:'true'
}}, 'click': () => { this.dialog.hide();
        this.uploadObj.remove(this.removeFile[0], false, true); }},

```

```

        {'click': () => {this.dialog.hide(); }, buttonModel: { content:
'Cancel', cssClass: 'e-flat' } }];
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public onremove(args: SelectedEventArgs) {
        this.removeFile=[];
        args.cancel = true;
        this.removeFile.push(args.filesData as any);
        this.dialog.show();
    }
    public render(): JSX.Element {
        return (
            <div className = 'control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle!}>
                <div className='control-section row uploadpreview'>
                    <div className='col-lg-9'>
                        <div className='upload_wrapper'>
                            <div id='preview' />
                            /* Render Uploader */
                            <UploaderComponent id='fileUpload' type='file' ref = {upload
=> {this.uploadObj = upload !}}
                                asyncSettings = {this.path}
                                removing={this.onremove = this.onremove.bind(this)}
                                created={this.onCreate = this.onCreate.bind(this)} />
                            <div id='targetElement' style={{minHeight:'200px'}} />
                            <DialogComponent id="defaultdialog" content={"Are you sure
want to remove the file?"} width={'300px'} ref={dialog => this.dialog =
dialog !}
                                target={'#targetElement'} visible={false}
                                buttons={this.buttons}/>
                            </div>
                        </div>
                    </div>
                </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% enddraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Add additional data on upload in React Uploader component

The uploader component allows you to add additional data on file upload, which is used to get in the server-side. By using the [uploading](#) event and its customFormData argument, you can achieve this behavior. Refer to the following example.

In the following code snippet, explains about how to add additional data on file upload.

`ts

```
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-inputs';
```

```
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public uploadObj: UploaderComponent;
  public path: object = {
    removeUrl: 'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl: 'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  private dropAreaRef: HTMLElement;
  public onCreate(): void {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  public onFileUpload(args: UploadingEventArgs) {
    // add addition data as key-value pair.
    args.customFormData = [{ 'name': 'Syncfusion INC' }];
  }
  public render(): JSX.Element {
    return (
      <div className = 'control-pane' ref={dropAreaEle => this.dropAreaRef = dropAreaEle!}>
        <div className='control-section row uploadpreview'>
          <div className='col-lg-9'>
            <div className='upload_wrapper'>
              {/ Render Uploader /}
              <UploaderComponent id='fileUpload' type='file' ref = {upload => {this.uploadObj = upload !}}
                asyncSettings = {this.path}
                uploading={this.onFileUpload = this.onFileUpload.bind(this)} created={this.onCreate =
                this.onCreate.bind(this)} />
            </div>
          </div>
        </div>
      </div>);
  }
}
```

```
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
`
```

Server side for adding additional data

```
`csharp
// Get the additional data in server end by corresponding key.
var data = HttpContext.Current.Request.Form["name"];
`
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Validate image on drop in React Uploader component

The uploader component allows you to upload all type of images by setting **image/*** to [allowedExtensions](#) property.

By default, the behavior is working with select a file using browse button. But, this behavior doesn't support on drag and drop the files. You can handle this behavior manually using **selected** event by filtering the file types from application.

In the following example, validated image files using images/*. You are able to drag and drop the image files with extension of PNG, JPG, BPG, GIF and TIFF to upload it.

INDEX.JSX

```
{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  dropAreaRef;
  onCreate() {
    this.uploadObj.dropArea = this.dropAreaRef;
    this.uploadObj.dataBind();
  }
  onSelect(args) {
    if (args.event.type === 'drop') {
      const allImages = ['png', 'jpg', 'jpeg', 'gif', 'tiff', 'bpg'];
      const files = args.filesData;
      const modifiedFiles = [];
      for (const file of files) {
        if (allImages.indexOf(file.type) === -1) {
          file.status = 'File type is not allowed';
          file.statusCode = '0';
        }
      }
    }
  }
}
```

```

        }
        modifiedFiles.push(file);
    }
    args.isModified = true;
}
}
render() {
    return (<div className='control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle}>
        <div className='control-section row uploadpreview'>
            <div className='col-lg-9'>
                <div className='upload_wrapper'>
                    /* Render Uploader */
                    <UploaderComponent id='fileUpload' autoUpload={false}
type='file' ref={upload => { this.uploadObj = upload; }}
asyncSettings={this.path} selected={this.onSelected =
this.onSelected.bind(this)} created={this.onCreated =
this.onCreated.bind(this)} />
                </div>
            </div>
        </div>);
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-
inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public onSelected(args: SelectedEventArgs): void {
        if (args.event.type === 'drop') {
            const allImages = ['png', 'jpg', 'jpeg', 'gif', 'tiff', 'bpg'];
            const files = args.filesData;
            const modifiedFiles = [];
            for (const file of files) {
                if (allImages.indexOf(file.type) === -1) {
                    file.status = 'File type is not allowed';
                    file.statusCode = '0';
                }
            }
        }
    }
}

```

```

        }
        modifiedFiles.push(file);
    }
    args.isModified = true;
}
}
}
public render(): JSX.Element {
    return (
        <div className = 'control-pane' ref={dropAreaEle =>
this.dropAreaRef = dropAreaEle!}>
            <div className='control-section row uploadpreview'>
                <div className='col-lg-9'>
                    <div className='upload_wrapper'>
                        { /* Render Uploader */ }
                        <UploaderComponent id='fileUpload' autoUpload = {false}
type='file' ref = {upload => {this.uploadObj = upload !}}
                        asyncSettings = {this.path}
                        selected={ this.onSelected = this.onSelected.bind(this)}
created={this.onCreated = this.onCreated.bind(this)} />
                    </div>
                </div>
            </div>
        </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Determine whether uploader has file input in React Uploader component

By setting the **required** attribute to uploader input element, you can validate the input file that has any value in it. In the following sample, set required attribute to the uploader input element and showcase the validation failure message using the `data-required-message` attribute.

INDEX.JSX

```

{% raw %}
import { createElement, detach, isNullOrUndefined, select } from
 '@syncfusion/ej2-base';
import { FormValidator } from '@syncfusion/ej2-inputs';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component {
    uploadObj;
    dialogObj;
    path = {
        removeUrl:
 'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
 'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
}

```



```

    };
    content = 'Your details have been updated successfully, Thank you.';
    width = '250px';
    visible = false;
    autoUpload = true;
    header = 'Success';
    extensions = '.png, .jpg, .jpeg';
    options = { rules: { 'name': { required: [true, '* Enter your name'] } } }
  };

  customDropRef;
  onCreated() {
    this.uploadObj.dropArea = this.customDropRef;
    this.uploadObj.dataBind();
    const formObj = new FormValidator('#form1', this.options);
    return formObj;
    setTimeout(() => {
      this.uploadObj.element.setAttribute('data-required-message', '*
Choose your image to upload');
      this.uploadObj.element.setAttribute('required', '');
      this.uploadObj.element.setAttribute('data-msg-containerid',
'uploadError');
    }, 500);
  }
  browseClick() {
    const wrapperEle = select('.e-file-select-wrap button', document);
    wrapperEle.click();
  }
  onFileSelect(args) {
    if (args.filesData.length > 0) {
      if (document.getElementsByClassName('upload-image').length > 0) {
        detach(document.getElementsByClassName('imgWrapper')[0]);
      }
      const imageTag = createElement('IMG', { className: 'upload-
image', attrs: { 'alt': 'Image' } });
      const wrapper = createElement('span', { className: 'imgWrapper'
});
      wrapper.appendChild(imageTag);
      const rootFile = this.customDropRef;
      rootFile.insertBefore(wrapper, rootFile.firstChild);
      this.readURL(wrapper, args.filesData[0]);
    }
    args.cancel = true;
  }
  readURL(li, args) {
    const preview = li.querySelector('.upload-image');
    const file = args.rawFile;
    const reader = new FileReader();
    reader.addEventListener('load', () => { preview.src = reader.result;
}, false);
    if (file) {
      reader.readAsDataURL(file);
    }
  }
  onFormSubmit() {
    const formObj = new FormValidator('#form1', this.options);
    const formStatus = formObj.validate();
  }

```

```

        const imgValidate =
!isNullOrUndefined(document.getElementsByClassName('imgWrapper')[0]);
        if (formStatus && imgValidate) {
            formObj.element.reset();
            if (imgValidate) {
                detach(document.getElementsByClassName('imgWrapper')[0]);
                this.dialogObj.show();
            }
        }
    }
    render() {
        return (<div className="control_wrapper">
            <div className="col-lg-12 control-section">
                <h4 className="form-title">Photo Contest</h4>
                <div className="controls" id="control_wrapper">
                    <form id="form1" method="post"
action='https://services.syncfusion.com/react/production/api/FileUploader/Save'>
                        <div id="name-attr" className="form-group" style={{
paddingTop: '40px' }}>
                            <div className="e-float-input">
                                <input type="text" id="name" name="name"
required={true} data-required-message='* Enter your name' data-msg-
containerid="nameError"/>
                                <span className="e-float-line"/>
                                <label className="e-float-text e-label-top"
htmlFor='name'>Name</label>
                                </div>
                                <div id="nameError"/>
                            </div>
                            <div id="dropArea">
                                <div id="uploadError"/>
                                <div id='customBrowse' ref={dropEle =>
this.customDropRef = dropEle} className="form-group dropUpload"
onClick={this.browseClick = this.browseClick.bind(this)}> Click here...
                                    <UploaderComponent ref={uplaod => { this.uploadObj =
uplaod; }} autoUpload={this.autoUpload} selected={this.onFileSelect =
this.onFileSelect.bind(this)} allowedExtensions={this.extensions}
created={this.onCreated = this.onCreated.bind(this)} />
                                </div>
                            </div>
                            <div className="submitBtn">
                                <button type="button" className="submit-btn e-btn"
id="submit-btn" onClick={this.onFormSubmit =
this.onFormSubmit.bind(this)}>Submit</button>
                                <div className="desc"><span>*This button is not a
submit type and the form submit handled from externally.</span></div>
                            </div>
                        </form>
                        <DialogComponent id="dialog" width='350px' ref={dialog => {
this.dialogObj = dialog; }} isModal={true} showCloseIcon={true}
header={this.header} visible={false} content={this.content}
target={".control_wrapper"} />
                    </div>
                </div>
            </div>);
    }

```

```
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import { createElement, detach, isNullOrUndefined, select } from
'@syncfusion/ej2-base';
import { FormValidator } from '@syncfusion/ej2-inputs';
import { SelectedEventArgs, UploaderComponent } from '@syncfusion/ej2-react-
inputs';
import { DialogComponent } from '@syncfusion/ej2-react-popups';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public dialogObj: DialogComponent;
    public path: object = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public content: string = 'Your details have been updated successfully,
Thank you.';
    public width: string = '250px';
    public visible: boolean = false;
    public autoUpload: boolean = true;
    public header: string = 'Success';
    public extensions: string = '.png, .jpg, .jpeg';
    public options = { rules: { 'name': { required: [true, '* Enter your
name'] } } };
    private customDropRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.customDropRef;
        this.uploadObj.dataBind();
        const formObj: FormValidator = new FormValidator('#form1',
this.options);
        return formObj as any;
        setTimeout(() => {
            this.uploadObj.element.setAttribute('data-required-message', '*
Choose your image to upload');
            this.uploadObj.element.setAttribute('required', '');
            this.uploadObj.element.setAttribute('data-msg-containerid',
'uploadError');
        }, 500);
    }
    public browseClick(): void {
        const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
document) as HTMLElement;
        wrapperEle.click();
    }
    public onFileSelect(args: SelectedEventArgs): void {
        if (args.filesData.length > 0) {
            if (document.getElementsByClassName('upload-image').length > 0) {
```

```

        detach(document.getElementsByClassName('imgWrapper')[0]);
    }
    const imageTag = createElement('IMG', { className: 'upload-
image', attrs: { 'alt': 'Image' } });
    const wrapper: HTMLElement = createElement('span', { className:
'imgWrapper' }) as HTMLElement;
    wrapper.appendChild(imageTag);
    const rootFile = this.customDropRef;
    rootFile.insertBefore(wrapper, rootFile.firstChild);
    this.readURL(wrapper, args.filesData[0]);
}
args.cancel = true;
}
public readURL (li: HTMLElement, args: any): void {
    const preview: HTMLImageElement = li.querySelector('.upload-image')
as HTMLImageElement;
    const file: File = args.rawFile; const reader: FileReader = new
FileReader();
    reader.addEventListener('load', () => { preview.src = reader.result
as string; }, false);
    if (file) { reader.readAsDataURL(file); }
}
public onFormSubmit(): void {
    const formObj: FormValidator = new FormValidator('#form1',
this.options);
    const formStatus: boolean = formObj.validate();
    const imgValidate =
!isNullOrUndefined(document.getElementsByClassName('imgWrapper')[0]);
    if (formStatus && imgValidate) {
        formObj.element.reset();
        if(imgValidate) {
            detach(document.getElementsByClassName('imgWrapper')[0]);
            this.dialogObj.show();
        }
    }
}
public render(): JSX.Element {
    return (
        <div className="control_wrapper">
            <div className="col-lg-12 control-section">
                <h4 className="form-title">Photo Contest</h4>
                <div className="controls" id="control_wrapper">
                    <form id="form1" method="post"
action='https://services.syncfusion.com/react/production/api/FileUploader/Save'
e'>
                        <div id="name-attr" className="form-group"
style={{paddingTop: '40px'}}>
                            <div className="e-float-input">
                                <input type="text" id="name" name="name"
required={true} data-required-message='* Enter your name' data-msg-
containerid="nameError"/>
                                <span className="e-float-line" />
                                <label className="e-float-text e-label-top"
htmlFor='name'>Name</label>
                            </div>
                            <div id="nameError" />
                        </div>
                    </div>
                </div>
            </div>
        </div>
    )
}

```

```

        <div id="dropArea">
            <div id="uploadError" />
            <div id='customBrowse' ref={dropEle =>
this.customDropRef = dropEle!} className="form-group dropUpload"
onClick={this.browseClick=this.browseClick.bind(this)}> Click here...
                <UploaderComponent ref={uplaod => {this.uploadObj =
uplaod !}} autoUpload={this.autoUpload} selected={this.onFileSelect =
this.onFileSelect.bind(this)} allowedExtensions={this.extensions}
created={this.onCreated = this.onCreated.bind(this)} />
            </div>
        </div>
        <div className="submitBtn">
            <button type="button" className="submit-btn e-btn"
id="submit-btn" onClick={this.onFormSubmit =
this.onFormSubmit.bind(this)}>Submit</button>
            <div className="desc"><span>*This button is not a
submit type and the form submit handled from externally.</span></div>
        </div>
    </form>
    <DialogComponent id="dialog" width='350px' ref={dialog =>
{this.dialogObj = dialog !}} isModal={true} showCloseIcon={true}
header={this.header} visible={false} content={this.content}
target=".control_wrapper" />
    </div>
</div>
</div>);
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Achieve file upload programmatically in React Uploader component

You can upload a file programmatically using the [upload](#) method. Get the selected files data from the [getFilesData](#) public method in uploader.

- If this method receives any files as arguments, those files only start to upload.

INDEX.JSX

```

{% raw %}
import { isNullOrUndefined } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
    uploadObj;
    path = {
        removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
}

```

```

    };
    uploadFirst() {
        if (!isNullOrUndefined(this.uploadObj.getFilesData()[0])) {
            this.uploadObj.upload(this.uploadObj.getFilesData()[0]);
        }
    }
    uploadAll() {
        this.uploadObj.upload(this.uploadObj.getFilesData());
    }
    render() {
        return (
            <div id='container'>
                <div className="control_wrapper">
                    <UploaderComponent autoUpload={false} ref={upload => {
                        this.uploadObj = upload; }} asyncSettings={this.path}/>
                </div>
                <span className="upload-buttons">
                    <button id='first' className='e-btn e-control'
                        onClick={this.uploadFirst = this.uploadFirst.bind(this)}>Upload first
                        file</button>
                </span>
                <span className="upload-buttons">
                    <button id='full' className='e-btn e-control'
                        onClick={this.uploadAll = this.uploadAll.bind(this)}>Upload all
                        files</button>
                </span>
            </div>);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { isNullOrUndefined } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from 'react-dom';
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
            'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
            'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public uploadFirst(): void {
        if (!isNullOrUndefined(this.uploadObj.getFilesData()[0])) {
            this.uploadObj.upload(this.uploadObj.getFilesData()[0]);
        }
    }
    public uploadAll(): void {
        this.uploadObj.upload(this.uploadObj.getFilesData());
    }
    public render(): JSX.Element {
        return (

```

```

    <div id='container'>
      <div className="control_wrapper">
        <UploaderComponent autoUpload={false} ref = {upload =>
{this.uploadObj = upload !}} asyncSettings={this.path} />
      </div>
      <span className="upload-buttons">
        <button id='first' className='e-btn e-control'
onClick={this.uploadFirst = this.uploadFirst.bind(this)}>Upload first
file</button>
      </span>
      <span className="upload-buttons">
        <button id='full' className='e-btn e-control'
onClick={this.uploadAll = this.uploadAll.bind(this)}>Upload all
files</button>
      </span>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Check file size before uploading it in React Uploader component

By using the [uploading](#) event, you can get the file size before uploading it to the server.

File object contains the file size in bytes only. You can convert the size to standard formats (KB or MB) using [bytesToSize](#) method.

INDEX.JSX

```

{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  onBeforeUpload(args) {
    // get the file size in bytes
    const sizeInBytes = args.fileData.size;
    // get the file size in standard format
    alert("File size is: " + this.uploadObj.bytesToSize(sizeInBytes));
  }
  render() {
    return (<UploaderComponent autoUpload={false} ref={upload => {
this.uploadObj = upload; }} asyncSettings={this.path}
uploading={this.onBeforeUpload = this.onBeforeUpload.bind(this)} />);
  }
}

```

```
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}>, {}> {
  public uploadObj: UploaderComponent;
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public onBeforeUpload(args: UploadingEventArgs): void {
    // get the file size in bytes
    const sizeInBytes: number = args.fileData.size;
    // get the file size in standard format
    alert("File size is: " + this.uploadObj.bytesToSize(sizeInBytes));
  }
  public render(): JSX.Element {
    return (
      <UploaderComponent autoUpload={false} ref = {upload => {this.uploadObj
= upload !}} asyncSettings={this.path} uploading={this.onBeforeUpload =
this.onBeforeUpload.bind(this)} />
    );
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Check the mime type of file before upload it in React Uploader component

By using the [uploading](#) event, you can get the file MIME type before uploading it to the server.

In the following sample, file MIME type is shown in the alert box before the file starts to upload.

INDEX.JSX

```
{% raw %}
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',

```



```

        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    };
    onBeforeUpload(args) {
        // get the file MIME type
        alert("File MIME type is: " + args.fileData.rawFile.type);
    }
    render() {
        return (<UploaderComponent autoUpload={false} ref={upload => {
            this.uploadObj = upload; }} asyncSettings={this.path}
            uploading={this.onBeforeUpload = this.onBeforeUpload.bind(this)} />);
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

INDEX.TSX

```

{% raw %}
import { UploaderComponent, UploadingEventArgs } from '@syncfusion/ej2-react-
inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl:
        'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    public onBeforeUpload(args: UploadingEventArgs): void {
        // get the file MIME type
        alert("File MIME type is: " + (args.fileData.rawFile as Blob).type);
    }
    public render() {
        return (
            <UploaderComponent autoUpload={false} ref = {upload => {this.uploadObj =
            upload !}} asyncSettings={this.path} uploading={this.onBeforeUpload =
            this.onBeforeUpload.bind(this)} />
        );
    }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Trigger click event of input file from external button in React Uploader component

Click event of input file from the external button can be triggered using the `click` event of button.

In the following sample, you can find the triggered click event of input file from **Essential JavaScript 2 Button**.

INDEX.JSX

```
{% raw %}
import { select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component {
  uploadObj;
  path = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  };
  browseClick() {
    const wrapperEle = select('.e-file-select-wrap button', document);
    wrapperEle.click();
  }
  render() {
    return (<div className="control_wrapper">
      <div id="dropArea">
        <span id="drop"> Drop image (JPG, PNG) files here or <button
className='e-btn e-control' id="browse" onClick={this.browseClick =
this.browseClick.bind(this)}>Browse</button></span>
      </div>
      <UploaderComponent ref={uplaod => { this.uploadObj = uplaod; }}
asyncSettings={this.path}/>
    </div>);
  }
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}
```

INDEX.TSX

```
{% raw %}
import { select } from '@syncfusion/ej2-base';
import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
  public uploadObj: UploaderComponent;
  public path: object = {
    removeUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
    saveUrl:
'https://services.syncfusion.com/react/production/api/FileUploader/Save'
  }
  public browseClick(): void {
    const wrapperEle: HTMLElement = select('.e-file-select-wrap button',
document) as HTMLElement;
    wrapperEle.click();
  }
  public render(): JSX.Element {
    return (

```

```

        <div className="control_wrapper">
            <div id="dropArea">
                <span id="drop"> Drop image (JPG, PNG) files here or <button
className='e-btn e-control' id="browse" onClick = {this.browseClick =
this.browseClick.bind(this)}>Browse</button></span>
            </div>
            <UploaderComponent ref={uplaod => {this.uploadObj = uplaod !}}
asyncSettings={this.path} />
        </div>
    );
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
{% endraw %}

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Open and edit the uploaded files in React Uploader component

The uploader component allows you to modify the file after uploading to the server, which can be achieved using success event of the uploader.

You can retrieve the saved file path in the uploader success event and assign it to custom attribute (data-file-name) value of the respective file list element to open the uploaded file. Click the respective file element to create a new request along with saved file path using http header. In the server-side, get the file path from the header and open the file using `process.start` method.

`ts

```

import { UploaderComponent } from '@syncfusion/ej2-react-inputs';
import * as React from 'react';
import * as ReactDOM from "react-dom";
export default class App extends React.Component<{}, {}> {
    public uploadObj: UploaderComponent;
    public path: object = {
        removeUrl: 'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
        saveUrl: 'https://services.syncfusion.com/react/production/api/FileUploader/Save'
    }
    private dropAreaRef: HTMLElement;
    public onCreate(): void {
        this.uploadObj.dropArea = this.dropAreaRef;
        this.uploadObj.dataBind();
    }
    public onUploadSuccess(args: any): void {

```

```

// fetching the generated li elements
const liElements: any = document.body.querySelectorAll('.e-upload-file-list');
for (const i of liElements) {
  if (liElements[i].getAttribute('data-file-name') === args.file.name) {
    liElements[i].addEventListener('click', () => { this.openFile(args, event) })
    // File path have to update from server end in response status description.
    liElements[i].setAttribute('file-path', args.e.target.statusText);
  }
}

public openFile(args: any, e: any) {
  if (!e.target.classList.contains('e-file-delete-btn') && !e.target.classList.contains('e-file-remove-btn'))
  {
    const ajax = new XMLHttpRequest();
    // create new request for open the selected file
    ajax.open("POST", '/Home/openFile');
    const liElements = document.getElementsByClassName('e-upload')[0].querySelectorAll('.e-upload-file-list') as any;
    for (const i of liElements as any) {
      if (liElements[i].getAttribute('data-file-name') === args.file.name) {
        // Added the file path in header to get it in server side.
        ajax.setRequestHeader('filePath', liElements[i].getAttribute('file-path').toString());
      }
    }
    ajax.send();
  }
}

public render(): JSX.Element {
  return (
    <div className = 'control-pane'>
    <div className='control-section row uploadpreview'>
    <div className='col-lg-9'>
    <div className='upload_wrapper'>

```

```

{/ Render Uploader /}
<UploaderComponent id='fileUpload' type='file' ref = {upload => {this.uploadObj = upload !}}
  asyncSettings = {this.path}
  success={ this.onUploadSuccess = this.onUploadSuccess.bind(this)} created={this.onCreated =
  this.onCreated.bind(this)} />
</div>
</div>
</div>
</div>
);
}
}
ReactDOM.render(<App />, document.getElementById('fileupload'));
`

```

Server side for open and edit the uploaded files

```

`csharp
public void Save() {
if (!System.IO.File.Exists(fileSavePath))
{
httpPostedFile.SaveAs(fileSavePath);
HttpResponse Response = System.Web.HttpContext.Current.Response;
Response.Clear();
Response.ContentType = "application/json; charset=utf-8";
<!-- Sending the file path to client side -->
Response.StatusDescription = fileSavePath;
Response.End();
}
}
[AcceptVerbs("Post")]
public void openFile()
{
// Check whether the file is available in the corresponding location
if (System.IO.File.Exists(Request.Headers.GetValues("filePath").First()))
{

```

```
// This will open the selected file from server location in desktop
```

```
Process.Start(Request.Headers.GetValues("filePath").First());
```

```
}
```

```
}
```

```
,
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Resize images before uploading it to the server in Uploader component

You can customize the dimension of the images before uploading it to the server.

By using selected event, you can get the selected file information as type of an object. From the obtained image file information, create a new canvas and render an image with the custom dimensions. Refer the corresponding code snippet as follows.

```
`ts
```

```
import { Browser, createElement, detach, EventHandler, isNullOrUndefined } from '@syncfusion/ej2-base';
```

```
import { createSpinner, hideSpinner, showSpinner } from '@syncfusion/ej2-popups';
```

```
import { FileInfo, RemovingEventArgs, UploaderComponent } from '@syncfusion/ej2-react-inputs';
```

```
import * as React from 'react';
```

```
export default class App extends React.Component<{}, {}> {
```

```
  public uploadObj: UploaderComponent;
```

```
  public newImage: any;
```

```
  public parentElement: HTMLElement;
```

```
  public proxy: any;
```

```
  public progressBarContainer: HTMLElement;
```

```
  public filesDetails: FileInfo[] = [];
```

```
  public fileList: HTMLElement[] = [];
```

```
  public path: object = {
```

```
    removeUrl: 'https://services.syncfusion.com/react/production/api/FileUploader/Remove',
```

```
    saveUrl: 'https://services.syncfusion.com/react/production/api/FileUploader/Save'
```

```
  }
```

```
  constructor(props: any) {
```

```
    super(props);
```

```
    this.onSuccess= this.onSuccess.bind(this);
```

```
    this.onRemoveFile= this.onRemoveFile.bind(this);
```

```

this.onFileSelect= this.onFileSelect.bind(this);
this.onFileUpload = this.onFileUpload.bind(this);
this.onUploadFailed= this.onUploadFailed.bind(this);
}

public onSuccess(args: any): void {
const spinnerElement: HTMLElement = document.getElementById("dropArea") as HTMLElement;
const li: HTMLElement = (document.getElementById("dropArea") as
HTMLElement).querySelector('[data-file-name="' + args.file.name + '"') as HTMLElement;
if (args.operation === "upload") {
(li.querySelector(".close-icon-container") as HTMLElement).classList.add("delete-icon");
detach(li.getElementsByTagName("progress")[0]);
(li.querySelector(".file-size") as HTMLElement).style.display =
"inline-block";
(li.querySelector(".file-name") as HTMLElement).style.color = "green";
(li.querySelector(".e-icons") as HTMLElement).onclick = () => {
createSpinner({ target: spinnerElement, width: "25px" });
showSpinner(spinnerElement);
};
(li.querySelector(".close-icon-container") as HTMLElement).onkeydown = (
e: any
) => {
if (e.keyCode === 13) {
createSpinner({ target: spinnerElement, width: "25px" });
showSpinner(spinnerElement);
}
};
} else {
this.filesDetails.splice(this.filesList.indexOf(li), 1);
this.filesList.splice(this.filesList.indexOf(li), 1);
this.uploadObj.element.value = "";
detach(li);
hideSpinner(spinnerElement);
detach(spinnerElement.querySelector(".e-spinner-pane") as HTMLElement);
}
}

```

```
}

EventHandler.add(li.querySelector(".close-icon-container") as HTMLElement, "click", this.removeFiles,
this);
}

public onFileSelect(args: any): void {
  args.cancel = true;
  const proxy = this;
  if (
    isNullOrUndefined(
      (document.getElementById("dropArea") as HTMLElement).querySelector(".upload-list-root") as
      HTMLElement
    )
  ) {
    this.parentElement = createElement("div", {
      className: "upload-list-root"
    });
    this.parentElement.appendChild(
      createElement("ul", { className: "ul-element" })
    );
    (document.getElementById("dropArea") as HTMLElement).appendChild(this.parentElement);
  }
  for (const fileData of args.filesData) {
    this.formSelectedData(fileData, this); // create the LI element for each file Data
  }
  // for (let i: number = 0; i < args.filesData.length; i++) {
  //   this.formSelectedData(args.filesData[i], this); // create the LI element for each file Data
  // }
  this.filesDetails = this.filesDetails.concat(args.filesData);
  const file: FileInfo = args.filesData[0].rawFile;
  let width: number;
  let height: number;
  const img: any = document.createElement("img");
  const reader: any = new FileReader();
  reader.onload = (e: any) => {
```



```
img.src = e.target.result;
};
reader.readAsDataURL(file);
const imgs = new Image();
img.onload = function() {
width = this.width;
height = this.height;
proxy.onNewImg(height, width, img, args.filesData[0]);
};
imgs.src = img.src;
}
// to create canvas and update our custom dimensions
public onNewImg(height: number, width: number, img: any, file: any) {
const canvas: HTMLCanvasElement = document.createElement("canvas");
const ctx: any = canvas.getContext("2d");
ctx.drawImage(img, 0, 0);
const MAX_WIDTH: any = 1000;
const MAX_HEIGHT: any = 600;
if (width > height) {
if (width > MAX_WIDTH) {
height *= MAX_WIDTH / width;
width = MAX_WIDTH;
}
} else {
if (height > MAX_HEIGHT) {
width *= MAX_HEIGHT / height;
height = MAX_HEIGHT;
}
}
canvas.width = width;
canvas.height = height;
const ctx1 = canvas.getContext("2d") as CanvasRenderingContext2D;
ctx1.drawImage(img, 0, 0, width, height);
```

```
this.newImage = canvas.toDataURL("image/png");
const blobBin = atob(this.newImage.split(",")[1]);
const array = [];
for (let i = 0; i < blobBin.length; i++) {
  array.push(blobBin.charCodeAt(i));
}
const newBlob = new Blob([new Uint8Array(array)], { type: "image/png" });
const newFile: any = this.createFile(newBlob, file);
this.uploadObj.upload(newFile, true);
}

// To create File object to upload
public createFile(image: any, file: any) {
  const newFile = {
    name: file.name,
    rawFile: image,
    size: image.size,
    status: "Ready to Upload",
    statusCode: "1",
    type: file.type,
    validationMessage: ""
  };
  return newFile;
}

public formSelectedData(selectedFiles: FileInfo, proxy: any): void {
  const liEle: HTMLElement = createElement("li", {
    attrs: { "data-file-name": selectedFiles.name },
    className: "file-lists"
  });
  liEle.appendChild(
    createElement("span", {
      className: "file-name ",
      innerHTML: selectedFiles.name
    })
  )
}
```

```
);
liEle.appendChild(
createElement("span", {
className: "file-size ",
innerHTML: this.uploadObj.bytesToSize(selectedFiles.size)
})
);
if (selectedFiles.statusCode === "1") {
this.progressBarContainer = createElement("span", {
className: "progress-bar-container"
});
this.progressBarContainer.appendChild(
createElement("progress", {
attrs: { value: "0", max: "100" },
className: "progress"
})
);
liEle.appendChild(this.progressBarContainer);
} else {
(liEle.querySelector(".file-name") as HTMLElement).classList.add("upload-fails");
}
const closeIconContainer: HTMLElement = createElement("span", {
className: "e-icons close-icon-container"
});
EventHandler.add(closeIconContainer, "click", this.removeFiles, proxy);
liEle.appendChild(closeIconContainer);
(document.querySelector(".ul-element") as HTMLElement).appendChild(liEle);
this.filesList.push(liEle);
}
public onFileUpload(args: any): void {
const li: Element = (document.getElementById("dropArea") as HTMLElement).querySelector('[data-file-name="" + args.file.name + ""]') as HTMLElement;
EventHandler.remove(li.querySelector(".close-icon-container") as HTMLElement, "click",
this.removeFiles );
```

```
const progressValue: number = Math.round(
  (args.e.loaded / args.e.total) * 100
);
if (!isNaN(progressValue)) {
  li.getElementsByTagName("progress")[0].value = progressValue; // Updating the progress bar value
}
}

public onUploadFailed(args: any): void {
  const li: Element = (document.getElementById("dropArea") as HTMLElement).querySelector('[data-file-name="' + args.file.name + '"') as HTMLElement;
  EventHandler.add(li.querySelector(".close-icon-container") as HTMLElement, "click", this.removeFiles, this);
  (li.querySelector(".file-name ") as HTMLElement).classList.add("upload-fails");
  if (args.operation === "upload") {
    detach(li.querySelector(".progress-bar-container") as HTMLElement);
  }
}

public removeFiles(args: any): void {
  const status: string = this.filesDetails[
    this.filesList.indexOf(args.currentTarget.parentElement)
  ].statusCode;
  if (status === "2") {
    this.uploadObj.remove(
      this.filesDetails[
        this.filesList.indexOf(args.currentTarget.parentElement)
      ]
    );
  } else {
    detach(args.currentTarget.parentElement);
  }
}

public onRemoveFile(args: RemovingEventArgs): void {
  args.postRawFile = false;
}
```

```

public componentDidMount() {
  setTimeout(() => {
    (document.getElementById("browse") as HTMLElement).onclick = () => {
      ((document.getElementsByClassName("e-file-select-wrap")[0] as
      HTMLElement).querySelector("button") as HTMLElement).click();
    }
    return false;
  });
  this.uploadObj.element.setAttribute("name", "UploadFiles");
  this.uploadObj.dropArea = document.getElementsByClassName(
    "template_wrapper"
  )[0] as HTMLElement;
  this.uploadObj.dataBind();
  if (Browser.isDevice) {
    (this.uploadObj.dropArea.querySelector(
      "drop"
    ) as HTMLElement).style.padding = "4% 13%";
  }
}

public render() {
  return (
    <div className="template_wrapper">
      {/ Render Uploader /}
      <div id="dropArea" className="dropArea">
        <span id="drop" className="file-name-span drop">
          {" "}
          Drop files here or <a href="" id="browse">
            <u>Browse</u>
          </a>{" "}
        </span>
        <UploaderComponent id="fileUpload" type="file" ref={upload => { this.uploadObj = upload! }}
        success={this.onSuccess}
        removing={this.onRemoveFile}
      </div>
    </div>
  );
}

```

```

selected={this.onFileSelect}
progress={this.onFileUpload} // Triggres when upload is in progress
failure={this.onUploadFailed} // Triggres when upload got failed
dropArea={
  document.getElementsByClassName("template_wrapper")[0] as HTMLInputElement
}
asyncSettings = {this.path}
multiple = {false}
allowedExtensions={"image/*"}
/>
</div>
</div>)
}
}
ReactDOM.render(<App />, document.getElementById("fileupload"));
`
`

<style>
.dropArea {
  min-height: 50px;
  padding-top: 15px;
  position: relative;
}
.drop {
  padding: 3% 30% 3%;
  display: inherit;
  border: 1px dashed #c3c3cc;
}
.template_wrapper {
  max-width: 400px;
  margin: auto;
}
.template_wrapper .file-name-span {

```

```
font-size: 14px;
}
.template_wrapper .e-file-select-wrap {
display: none;
}
.template_wrapper .e-upload {
float: none;
border: none;
}
.template_wrapper .ul-element {
list-style: none;
width: 100%;
padding-left: 0;
}
.template_wrapper .file-name {
padding: 8px 6px 8px 0;
font-size: 13px;
width: 46%;
display: inline-block;
position: relative;
top: 4px;
}
.template_wrapper .file-size {
padding: 4px;
font-size: 13px;
width: 18%;
display: inline-block;
position: relative;
}
.template_wrapper .file-lists {
border: 1px solid lightgray;
padding: 0 6px 0 14px;
margin-top: 15px;
```

```
position: relative;
background: rgba(0, 0, 0, 0.04);
}
.templatewrapper .file-size,.templatewrapper .file-name {
font-family: "Helvetica Neue", "Helvetica", "Arial", "sans-serif";
text-overflow: ellipsis;
overflow: hidden;
white-space: nowrap
}
.template_wrapper span.progress-bar-container {
display: block;
float: right;
height: 20px;
right: 13%;
top: 14px;
position: relative;
width: 20%;
}
.template_wrapper .progress{
width: 100%;
height: 15px;
-webkit-appearance: none;
}
.template_wrapper .close-icon-container
{
cursor: pointer;
font-size: 11px;
height: 26px;
margin: 0 12px 0 22px;
padding: 0;
position: absolute;
right: 0;
width: 26px;
```



```
top: 6px;
}
.template_wrapper .close-icon-container.e-icons::before {
left: 7px;
position: inherit;
top: 7px;
content: '\e932';
}
.template_wrapper .close-icon-container.delete-icon::before {
content: '\e94a';
}
.template_wrapper .close-icon-container:hover {
background-color: rgba(0, 0, 0, 0.12);
border-color: transparent;
border-radius: 50%;
box-shadow: 0 0 0 transparent;
}
.template_wrapper .upload-success {
color: #2bc700;
}
.template_wrapper .upload-fails {
color: #f44336;
}
.template_wrapper progress::-webkit-progress-bar {
border: 1px solid lightgrey;
background-color: #ffffff;
border-radius: 2px;
}
dropArea progress {
border: 1px solid lightgrey;
background-color: #ffffff;
border-radius: 2px;
}
```

```
.template_wrapper span a {  
color:#ff4081;  
}  
</style>  
,
```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Convert image into binary format after uploading in React Uploader component

By default, the file upload component saves the uploaded image files in physical directories. Also, you can convert the images into binary format at server-side before saving the uploaded images. To retrieve binary format of image files, convert the posted file's input stream into binary reader and read as bytes using ReadBytes method.

Refer to the below server-side code snippet

```
`csharp  
[AcceptVerbs("Post")]  
public void Save()  
{  
try  
{  
if (System.Web.HttpContext.Current.Request.Files.AllKeys.Length > 0)  
{  
var httpPostedFile = System.Web.HttpContext.Current.Request.Files["UploadFiles"];  
if (httpPostedFile != null)  
{  
byte[] fileBytes;  
using (BinaryReader br = new BinaryReader(httpPostedFile.InputStream))  
{  
fileBytes = br.ReadBytes((int)httpPostedFile.InputStream.Length);  
// bytes will be stored in variable fileBytes  
}  
HttpResponse Response = System.Web.HttpContext.Current.Response;  
Response.Clear();  
Response.ContentType = "application/json; charset=utf-8";  
Response.StatusCode = 200;  
}
```

```

Response.Status = "200 Success";
Response.End();
}
}
}
catch (Exception e)
{
    HttpResponseMessage Response = System.Web.HttpContext.Current.Response;
    Response.Clear();
    Response.ContentType = "application/json; charset=utf-8";
    Response.StatusCode = 204;
    Response.Status = "204 No Content";
    Response.StatusDescription = e.Message;
    Response.End();
}
}
,

```

You can also explore [React File Upload](#) feature tour page for its groundbreaking features. You can also explore our [React File Upload example](#) to understand how to browse the files which you want to upload to the server.

Ej1 api migration in React Uploader component

This article describes the API migration process of File Upload component from Essential JS 1 to Essential JS 2.

Accessibility

{% raw %}

<!-- markdownlint-disable MD033 -->

Behavior	Property in Essential JS 1	Property in Essential JS 2
Localization	Property : locale <EJ.Uploadbox id="UploadDefault" locale= 'es-ES'></EJ.Uploadbox>	Property : locale <UploaderComponent id='fileUpload' locale='es-ES' />
Right to left	Property : enableRTL <EJ.Uploadbox id="UploadDefault" enableRTL= {true}></EJ.Uploadbox>	Property : enableRTL <UploaderComponent id='fileUpload' enableRtl= {true} />

File List

<!-- markdownlint-disable MD033 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

| Show/Hide the selected files | **Property** : showFileDetails

<EJ.Uploadbox id="UploadDefault" showFileDetails= {false}></EJ.Uploadbox> | **Property** : showFileList

<UploaderComponent id='fileUpload' showFileList= {false} /> |

| Customizing the file list | Not Applicable | **Property** : template

<UploaderComponent id='fileUpload' template='#templateid' /> |

| Get the files in sorted form | Not Applicable | **Method**: SortFileList

<UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} />

constructor(props: {}) {
this.uploadObj.sortFileList(files);
}
 |

| Clearing File List | Not Applicable | **Method**: ClearAll

<UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} />

constructor(props: {}) {
this.uploadObj.clearAll();
}
 |

| Event triggers when clearing Files | Not Applicable | **Event** : clearing

<UploaderComponent id='fileUpload' clearing= { this.onClearing.bind(this) } />

private onClearing(ClearingEventArgs): void {}
 |

File selection

<!-- markdownlint-disable MD033 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

| Select multiple files to upload | **Property** : multipleFilesSelection

<EJ.Uploadbox id="UploadDefault" multipleFilesSelection= {true}></EJ.Uploadbox> | **Property** : multiple

<UploaderComponent id='fileUpload' multiple= {true} /> |

| Set minimum file size to upload | **Not Applicable** | **Property** : minFileSize

<UploaderComponent id='fileUpload' minFileSize={this.minFileSize} />

constructor(props: {}) { this.minFileSize= 1024;
 } |

| Set maximum file size to upload | **Property** : fileSize

<EJ.Uploadbox id="UploadDefault" fileSize= '5000'></EJ.Uploadbox> | **Property** : maxFileSize

<UploaderComponent id='fileUpload' maxFileSize= {this.maxFileSize} />

constructor(props: {}) { this.maxFileSize= 5000;
 } |

| Allowed file types to select | **Property** : extensionsAllow

<EJ.Uploadbox id="UploadDefault" extensionsAllow='.zip'/></EJ.Uploader> | **Property**: allowedExtensions

<UploaderComponent id='fileUpload' allowedExtensions= {this.allowedExtensions} /> constructor(props: {}) { this.allowedExtensions='.pdf'; } |

| Restricted files types to select | **Property**: extensionsDeny

<EJ.Uploadbox id="UploadDefault" extensionsDeny='.docx'></EJ.Uploadbox> | **Not Applicable** |

| Display only selected details in File list | **Property** : customFileDetails

<EJ.Uploadbox id="UploadDefault"

customFileDetails={this.customFileDetails}></EJ.Uploadbox>

customFileDetails(): void
{
title: false,
name: true,
size: true,
status: true,
action: false
}
 |
Not Applicable |

| Options to customize File list dialog | **Property:** dialogAction

<EJ.Uploadbox
id="UploadDefault" dialogAction={this.dialogAction}></EJ.Uploadbox>

dialogAction():
void {
modal: false,
closeOnComplete: true,
resize: true,
drag:
false,
content: '#dialogTarget'
}
 | **Not Applicable** |

| Customize dialog position | **Property:** dialogPosition

<EJ.Uploadbox id="UploadDefault"
dialogPosition={this.position}></EJ.Uploadbox> position(): void { X: 300, Y: 100}
 | **Not
Applicable** |

| Change file list key values | **Property:** dialogText

<EJ.Uploadbox id="UploadDefault"
dialogText={this.dlgText}></EJ.Uploadbox>

dlgText(): void {
title: Upload File
List,
name: File Name,
size: File Size,
}
 | **Not Applicable** |

| Change drop area text | **Property:** dropAreaText

<EJ.Uploadbox id="UploadDefault"
dropAreaText= 'Drop files here'></EJ.Uploadbox> | No separate Property to change dropAreaText.
It can be customize using locale Texts |

| Change drop area height | **Property:** dropAreaHeight

<EJ.Uploadbox id="UploadDefault"
dropAreaHeight= '100%'></EJ.Uploadbox> | Not Applicable |

| Change drop area width | **Property:** dropAreaWidth

<EJ.Uploadbox id="UploadDefault"
dropAreaWidth= '100%'></EJ.Uploadbox> | Not Applicable |

| Dynamically push the file | **Property:** pushFile

<EJ.Uploadbox id="UploadDefault"
pushFile= {files} /></EJ.Uploadbox> | Not Applicable |

| Show the files uploader in server already. | **Not Applicable** | **Property:** files

<UploaderComponent id='validation'
type='file'>
<FilesDirective>
<UploadedFilesDirective name="Nature"
size={25000}type=".png">
</UploadedFilesDirective>
</FilesDirective>
</Uploade
rComponent>
 |

| Event triggers when select the file successfully | **Event:** fileSelect

<EJ.Uploadbox
id="UploadDefault" fileSelect= {this.onFileSelect} /></EJ.Uploadbox>

onFileSelect
():void {}
 | **Event:** selected

<UploaderComponent id='fileUpload' selected= {
this.onFileSelect.bind(this)} />

private onFileSelect(): void { }
 |

Upload action

<!-- markdownlint-disable MD038 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

| Save URL | **Property** : saveUrl

<EJ.Uploadbox id="UploadDefault" saveUrl=
{savefiles}></EJ.Uploadbox> | **Property** : saveUrl

<UploaderComponent id='fileUpload'
asyncSettings = {this.asyncSettings} />

constructor(props: {}) {
this.asyncSettings =
{
saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save',
};} |

| Remove URL | **Property** : removeUrl

<EJ.Uploadbox id="UploadDefault" removeUrl={removefiles}></EJ.Uploadbox> | **Property** : removeUrl

<UploaderComponent id='fileUpload' asyncSettings = {this.asyncSettings} />

constructor(props: {}) {
this.asyncSettings = {
removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove',
};} |

| Automatically upload the file when files added in to upload queue | **Property**: autoUpload

<EJ.Uploadbox id="UploadDefault" autoUpload= {false}></EJ.Uploadbox> | **Property**: autoUpload

<UploaderComponent id='fileUpload' autoUpload= {false} /> |

| Synchronous upload | **Property**: asyncUpload

<EJ.Uploadbox id="UploadDefault" ayncUpload= {false}></EJ.Uploadbox> | No Separate Property for enabling synchronous upload. It can be enabling by using below configuration

<UploaderComponent id='fileUpload' autoUpload= {false} /> |

| Key to get the selected files in server side | **Property**: uploadName

<EJ.Uploadbox id="UploadDefault" uploadName='Uploadkey'></EJ.Uploadbox> | Id of the element used as key value |

| Upload the files dynamically | **Not Applicable** | Method: upload()

<UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} asyncSettings = {this.asyncSettings} />

constructor(props: {}) {
this.asyncSettings = {
saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save',
removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove', };
this.uploadObj.upload = filesData;
}
 |

| Event triggers before start to upload the action | **Event**: beforeSend

<EJ.Uploadbox id="UploadDefault" onBeforeSend={this.onBeforeSend}></EJ.Uploadbox>

onBeforeSend() { };
 | **Event** : uploading

<UploaderComponent id='fileUpload' uploading= { this.beforeUploadStart.bind(this) } />

 private beforeUploadStart(): void { }
 |

| Event triggers when the upload is in progress | **Event**: inProgress

<EJ.Uploadbox id="UploadDefault" inProgress={this.uploadInProgress}></EJ.Uploadbox>

uploadInProgress() { };
 | **Event** : progress

<UploaderComponent id='fileUpload' progress= { this.uploadInProgress.bind(this) } />

private uploadInProgress(): void { }
 |

| Event triggers when upload got success | **Event**: success

<EJ.Uploadbox id="UploadDefault" success= {this.uploadSuccess}></EJ.Uploadbox>

uploadSuccess() { };
 | **Event** : success

<UploaderComponent id='fileUpload' success= { this.uploadSuccess.bind(this) } />

private uploadSuccess(): void { }
 |

| Event triggers when upload got failed | **Event**: error

<EJ.Uploadbox id="UploadDefault" error= {this.onUploadError}></EJ.Uploadbox>

onUploadError() { };
 | **Event** : failure

<UploaderComponent id='fileUpload' failure= { this.uploadFailure.bind(this) } />

private uploadFailure(): void { }
 |

| Event triggers when the upload got started | **Event:** begin

<EJ.Uploadbox id="UploadDefault" begin= {this.onUploadBegin}></EJ.Uploadbox>

onUploadBegin() { }
 | **Not Applicable** |

| Event triggers when cancel the upload | **Event:** cancel

 <EJ.Uploadbox id="UploadDefault" cancel= {this.onUploadCancel}></EJ.Uploadbox>

onUploadCancel() { }>
 | **Event :** canceling

<UploaderComponent id='fileUpload' canceling= { this.uploadingCancel.bind(this) } />

private uploadingCancel(): void { }
 |

| Event triggers when the upload completed | **Event:** complete

<EJ.Uploadbox id="UploadDefault" complete= {this.onUploadComplete}></EJ.Uploadbox>

onUploadComplete() { }>
 | **Not Applicable** |

Chunk Upload

<!-- markdownlint-disable MD038 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

| Enabling the chunk upload | Not Applicable | **Property:** chunkSize

<UploaderComponent id='fileUpload' asyncSettings = {this.asyncSettings} />

constructor(props: {}) { this.asyncSettings = { saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save',removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove',chunkSize: 500000 };>
 |

| Retry the upload automatically when it's get failed | Not Applicable | **Property:** retryCount, retryAfterDelay

<UploaderComponent id='fileUpload' asyncSettings = {this.asyncSettings} />

constructor(props: {}) { this.asyncSettings = { saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save', removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove', chunkSize: 500000, retryCount: 3, retryAfterDelay: 1000 };>
 |

| Pause the uploading file | Not Applicable | **Method:** pause

 <UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} asyncSettings = {this.asyncSettings} />

constructor(props: {}) { this.asyncSettings = { saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save', removeUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Remove', chunkSize: 500000 }; this.uploadObj.pause = filesData; }
 |

| Event triggers when pausing the file | Not Applicable | **Event:** pausing

<UploaderComponent id='fileUpload' pausing= { this.pausingUpload.bind(this)} />

 pausingUpload(): void { }
 |

| Resuming the paused file | Not Applicable | **Method:** resume

<UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} asyncSettings = {this.asyncSettings} />

constructor(props: {}) { this.asyncSettings = { saveUrl: 'https://ej2.syncfusion.com/services/api/uploadbox/Save', removeUrl:

```
'https://ej2.syncfusion.com/services/api/uploadbox/Remove', chunkSize: 500000 };
this.uploadObj.resume = filesData; }<br/> |
| Event triggers when resuming the file | Not Applicable | Event: resuming<br/>
<br/><UploaderComponent id='fileUpload' resumig= { this.resumingUpload.bind(this)} /><br/>
<br/>private resumigUpload(): void { <br/> |
| Retry the failed file | Not Applicable | Method: retry<br/> <br/><UploaderComponent
id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} asyncSettings = {this.asyncSettings}
/><br/><br/>constructor(props: {}) { this.asyncSettings = { saveUrl:
'https://ej2.syncfusion.com/services/api/uploadbox/Save', removeUrl:
'https://ej2.syncfusion.com/services/api/uploadbox/Remove', chunkSize: 500000 };
this.uploadObj.retry = filesData; }<br/> |
| Cancel the failed file | Not Applicable | Method: cancel<br/> <br/><UploaderComponent
id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} asyncSettings = {this.asyncSettings}
/><br/><br/>constructor(props: {}) { this.asyncSettings = { saveUrl:
'https://ej2.syncfusion.com/services/api/uploadbox/Save', removeUrl:
'https://ej2.syncfusion.com/services/api/uploadbox/Remove', chunkSize: 500000 };
this.uploadObj.cancel = filesData; }<br/> |
| Event triggers when cancel the file | Not Applicable | Event: canceling<br/>
<br/><UploaderComponent id='fileUpload' canceling= { this.cancelingUpload.bind(this)} /><br/>
<br/>private cancelingUpload(): void { }<br/> |
| Event triggers when chunk file fails | Not Applicable | Event: chunkFailure<br/>
<br/><UploaderComponent id='fileUpload' chunkFailure= { this.onChunkFailure.bind(this)}
/><br/> <br/>private onChunkFailure(): void { }<br/> |
| Event triggers when chunk file success | Not Applicable | Event: chunkSuccess<br/>
<br/><UploaderComponent id='fileUpload' chunkSuccess= { this.onChunkSuccess.bind(this)}
/><br/> <br/>private onChunkSuccess(): void { }<br/> |
```

Remove action

<!-- markdownlint-disable MD038 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

```
| Remove the uploaded file | Not Applicable | Method: remove<br/> <br/><UploaderComponent
id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} asyncSettings = {this.asyncSettings}
/><br/><br/>constructor(props: {}) {<br/>this.asyncSettings = {<br/>saveUrl:
'https://ej2.syncfusion.com/services/api/uploadbox/Save',<br/>removeUrl:
'https://ej2.syncfusion.com/services/api/uploadbox/Remove',<br/>this.uploadObj.remove =
filesData;<br/>}<br/> }<br/> |
```

```
| Event triggers when the file removing succeed | Event: remove<br/> <br/><EJ.Uploadbox
id="UploadDefault" remove= {this.onRemove}></EJ.Uploadbox><br/><br/>onRemove() { };<br/>
| Event: success<br/> <br/><UploaderComponent id='fileUpload' success= {
this.onSuccess.bind(this)} /><br/> <br/>private onSuccess(): void { }<br/> |
```


| Event triggers when the file removing fails | **Not Applicable** | **Event:** failure

<UploaderComponent id='fileUpload' failure= { this.onFailure.bind(this) } />

private onFailure(): void { }
 |

Buttons

<!-- markdownlint-disable MD038 -->

| **Behavior** | **Property in essential JS 1** | **Property in essential JS 2** |

| ----- | ----- | ----- |

| Customize button text | **Property** : buttonText

<EJ.Uploadbox
 buttonText.browse='browse' buttonText.upload='upload'
 buttonText.cancel='cancel'></EJ.Uploadbox>

let browse: string = 'Choose File'
let
 upload: string= 'Upload File'
let cancel: string= 'Cancel Upload'
 | **Property** :
 buttons

<UploaderComponent buttons={this.dlgbuttons}></ejs-
 uploader>

constructor(props: {}) {
this.dlgbuttons {
browse: 'Choose
 File'
clear: 'Clear Files'
upload: 'upload Files'
}
 |

Drag and Drop

<!-- markdownlint-disable MD038 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

| Enable drag and drop upload | **Property** : allowDragAndDrop

<EJ.Uploadbox
 id="UploadDefault" allowDragAndDrop= {true}></EJ.Uploadbox> | No separate Property to
 disabling drag and drop |

| Set custom drop area | **Not Applicable** | **Property** : dropArea

<UploaderComponent
 id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} />

renderComplete(): void
 {
this.uploadObj.dropArea = this.dropContainerEle;
} |

Common

<!-- markdownlint-disable MD038 -->

| **Behavior** | **Property in Essential JS 1** | **Property in Essential JS 2** |

| ----- | ----- | ----- |

| Adding custom class to wrapper element | **Property** : cssClass

<EJ.Uploadbox
 id="UploadDefault" cssClass= 'Custom-Class'></EJ.Uploadbox> | Not Applicable |

| Enable/Disable the control | **Property** : enabled

<EJ.Uploadbox id="UploadDefault"
 enabled= {false}></EJ.Uploadbox> **Method** : enable(), disable()
 | **Property**: enabled

 <UploaderComponent id='fileUpload' enabled= {false} /> |

| Set height for uploader | **Property**: height

<EJ.Uploadbox id="UploadDefault" height=
 '100%'></EJ.Uploadbox> | **Not Applicable** |

| Set width for uploader | **Property**: width

<EJ.Uploadbox id="UploadDefault" width=
 '100%'></EJ.Uploadbox> | **Not Applicable** |

| Adding HTML attributes | **Property:** htmlAttributes

 <EJ.Uploadbox id="UploadDefault" htmlAttribute= {this.htmlAttribute}></EJ.Uploadbox>

htmlAttribute () {
'aria-label': 'Uploadbox'
}
 | **Not Applicable** |

| Event triggers when control created successfully | **Event:** create

 <EJ.Uploadbox id="UploadDefault" create= {this.onCreate}></EJ.Uploadbox>

onCreate() { };
 | **Event:** created

 <UploaderComponent id='fileUpload' created= {this.onCreated.bind(this)} />

 onCreated(): void { }
 |

| Event triggers when destroy the control | **Event:** destroy

 <EJ.Uploadbox id="UploadDefault" destroy= {this.onDestroy}></EJ.Uploadbox>

onDestroy() { };
 | **Not Applicable** |

| Keeping the model values in cookies | **Property:** enablePersistence

<EJ.Uploadbox id="UploadDefault" enablePersistence= {true}></EJ.Uploadbox> | **Property:** enablePersistence

<UploaderComponent id='fileUpload' enablePersistence= {true} /> |

| Get the selected files data | **Not Applicable** | **Method:** getFilesData

<UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} />

constructor(props: {}) {
this.uploadObj.getFilesData();
}
 |

| Convert bytes in to MB, GB | **Not Applicable** | **Method:** bytesToSize

<UploaderComponent id='fileUpload' ref = {(scope) => {this.uploadObj = scope}} />

constructor(props: {}) {
this.uploadObj.bytesToSize(5000);
}
 |

{% endraw %}