AGgrid and Reactjs

- > ag-Grid is the industry standard for React Enterprise Applications.
- > Developers using ag-Grid are building applications that would not be possible if ag-Grid did not exist.

Reference:

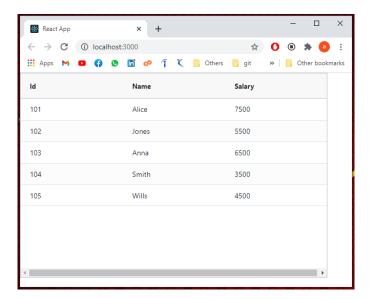
https://www.ag-grid.com/react-grid/

Installation AGgrid package.

npm install --save ag-grid-community ag-grid-react npm i ag-grid-enterprise

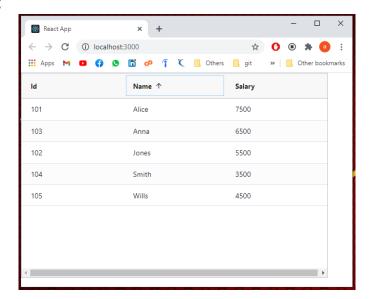
hello-app>npm install --save ag-grid-community ag-grid-react hello-app>npm i ag-grid-enterprise

Example: Basic Grid



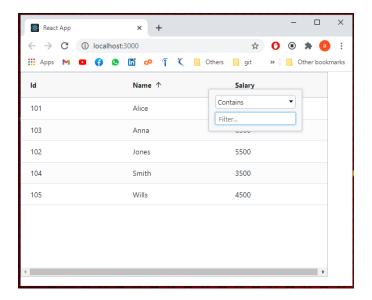
```
import ReactDOM from "react-dom";
import "./index.css";
import React, { useState } from "react";
import { AgGridColumn, AgGridReact } from "ag-grid-react";
import "ag-grid-community/dist/styles/ag-grid.css";
import "ag-grid-community/dist/styles/ag-theme-alpine.css";
function Display() {
  const initialData = [
    { id: 101, name: "Alice", salary: 7500 },
    { id: 102, name: "Jones", salary: 5500 },
    { id: 103, name: "Anna", salary: 6500 },
    { id: 104, name: "Smith", salary: 3500 },
    { id: 105, name: "Wills", salary: 4500 },
  ];
  const [rowData, setRowData] = useState(initialData);
 return (
    <div className="ag-theme-alpine" style={{ height: 400, width: 600 }}>
     <AgGridReact rowData={rowData}>
        <AgGridColumn field="id" />
        <AgGridColumn field="name" />
        <AgGridColumn field="salary" />
      </AgGridReact>
    </div>
 );
}
ReactDOM.render(<Display />, document.getElementById("root"));
```

Example: Adding Sorting



```
import ReactDOM from "react-dom";
import "./index.css";
import React, { useState } from "react";
import { AgGridColumn, AgGridReact } from "ag-grid-react";
import "ag-grid-community/dist/styles/ag-grid.css";
import "ag-grid-community/dist/styles/ag-theme-alpine.css";
function Display() {
  const initialData = [
    { id: 101, name: "Alice", salary: 7500 },
    { id: 102, name: "Jones", salary: 5500 },
    { id: 103, name: "Anna", salary: 6500 },
   { id: 104, name: "Smith", salary: 3500 },
    { id: 105, name: "Wills", salary: 4500 },
  ];
  const [rowData, setRowData] = useState(initialData);
  return (
    <div className="ag-theme-alpine" style={{ height: 400, width: 600 }}>
      <AgGridReact rowData={rowData}>
        <AgGridColumn field="id" sortable={true} />
        <AgGridColumn field="name" sortable={true} />
        <AgGridColumn field="salary" sortable={true} />
      </AgGridReact>
    </div>
  );
}
ReactDOM.render(<Display />, document.getElementById("root"));
```

Example: Adding Filter



```
import ReactDOM from "react-dom";
import "./index.css";
import React, { useState } from "react";
import { AgGridColumn, AgGridReact } from "ag-grid-react";
import "ag-grid-community/dist/styles/ag-grid.css";
import "ag-grid-community/dist/styles/ag-theme-alpine.css";
function Display() {
  const initialData = [
    { id: 101, name: "Alice", salary: 7500 },
    { id: 102, name: "Jones", salary: 5500 },
    { id: 103, name: "Anna", salary: 6500 },
    { id: 104, name: "Smith", salary: 3500 },
    { id: 105, name: "Wills", salary: 4500 },
  ];
  const [rowData, setRowData] = useState(initialData);
 return (
    <div className="ag-theme-alpine" style={{ height: 400, width: 600 }}>
      <AgGridReact rowData={rowData}>
        <AgGridColumn field="id" sortable={true} filter={true} />
        <AgGridColumn field="name" sortable={true} filter={true} />
        <AgGridColumn field="salary" sortable={true} filter={true} />
      </AgGridReact>
    </div>
 );
}
ReactDOM.render(<Display />, document.getElementById("root"));
```

Example: Fetching data from backend server.

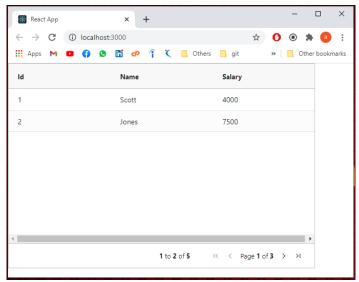
hello-app>json-server --watch db.json --port 4000

db.json

```
{
   "employees": [
        {
            "id": 1,
            "name": "Scott",
            "salary": 4000
        },
        {
            "id": 2,
            "name": "Jones",
            "salary": 7500
        }
        ]
    }
}
```

```
import ReactDOM from "react-dom";
import "./index.css";
import React, { useState, useEffect } from "react";
import { AgGridColumn, AgGridReact } from "ag-grid-react";
import "ag-grid-community/dist/styles/ag-grid.css";
import "ag-grid-community/dist/styles/ag-theme-alpine.css";
function Display() {
  const [rowData, setRowData] = useState([]);
 useEffect(() => {
   fetch("http://localhost:4000/employees")
      .then((result) => result.json())
      .then((rowData) => setRowData(rowData));
  }, []);
  return (
    <div className="ag-theme-alpine" style={{ height: 400, width: 600 }}>
      <AgGridReact rowData={rowData}>
        <AgGridColumn field="id" sortable={true} filter={true} />
        <AgGridColumn field="name" sortable={true} filter={true} />
        <AgGridColumn field="salary" sortable={true} filter={true} />
     </AgGridReact>
    </div>
  );
}
ReactDOM.render(<Display />, document.getElementById("root"));
```

Example: Adding Pagination



hello-app>json-server --watch db.json --port 4000

db.json

```
{
  "employees": [
    {
      "id": 1,
      "name": "Scott",
      "salary": 4000
    },
    {
      "id": 2,
      "name": "Jones",
      "salary": 7500
    },
      "id": 3,
      "name": "Allen",
      "salary": 5500
    },
      "id": 4,
      "name": "Alice",
      "salary": 4000
    },
      "id": 5,
      "name": "Smith",
      "salary": 7500
    }
  ]
```

```
import ReactDOM from "react-dom";
import "./index.css";
import React, { useState, useEffect } from "react";
import { AgGridColumn, AgGridReact } from "ag-grid-react";
import "ag-grid-community/dist/styles/ag-grid.css";
import "ag-grid-community/dist/styles/ag-theme-alpine.css";
function Display() {
  const [rowData, setRowData] = useState([]);
 useEffect(() => {
   fetch("http://localhost:4000/employees")
      .then((result) => result.json())
      .then((rowData) => setRowData(rowData));
  }, []);
 return (
    <div className="ag-theme-alpine" style={{ height: 400, width: 600 }}>
      <AgGridReact rowData={rowData} pagination={true} paginationPageSize="2">
        <AgGridColumn field="id" sortable={true} filter={true} />
        <AgGridColumn field="name" sortable={true} filter={true} />
        <AgGridColumn field="salary" sortable={true} filter={true} />
     </AgGridReact>
    </div>
 );
}
ReactDOM.render(<Display />, document.getElementById("root"));
```

Example: Separate columnDefs and defaultColDef.

```
import ReactDOM from "react-dom";
import "./index.css";
import React, { useState, useEffect } from "react";
import { AgGridColumn, AgGridReact } from "ag-grid-react";
import "ag-grid-community/dist/styles/ag-grid.css";
import "ag-grid-community/dist/styles/ag-theme-alpine.css";
function Display() {
 const columnDefs = [
    { headerName: "ID", field: "id" },
    { headerName: "NAME", field: "name" },
    { headerName: "SALARY", field: "salary" },
  1;
 const defaultColDef = {
   sortable: true,
   filter: true,
 };
 const [rowData, setRowData] = useState([]);
 useEffect(() => {
   fetch("http://localhost:4000/employees")
      .then((result) => result.json())
      .then((rowData) => setRowData(rowData));
  }, []);
    <div className="ag-theme-alpine" style={{ height: 400, width: 600 }}>
      <AgGridReact
        rowData={rowData}
        pagination={true}
        paginationPageSize="2"
        columnDefs={columnDefs}
        defaultColDef={defaultColDef}
      ></AgGridReact>
    </div>
  );
ReactDOM.render(<Display />, document.getElementById("root"));
```