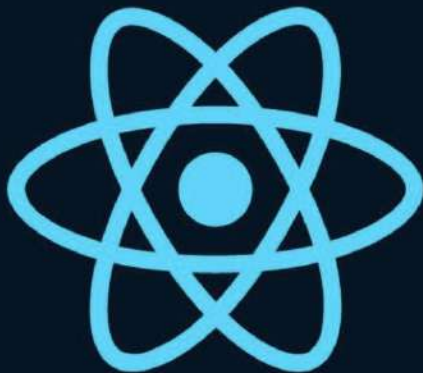# React js drag & drop

Introduction

In this tutorial we will install beautiful-react-dnd package to implement a simple drag and drop solution to rank football teams from the best to worst

Real Madrid

Manchester City

P🤚

FC Barcelona

Manchester United

Get started

To get started create a new react app and install beautiful-react-dnd package

First steps

To the App.js file add imports:

```
import {DragDropContext, Droppable, Draggable} from 'react-beautiful-dnd'
```

- DragDropContext - enable drag and drop
- Droppable - area to move around items
- Draggable - item which we can move

Create some data items to move around:

```
const TEAM_DATA = [
  {id: 1, name: 'FC Barcelona'},
  {id: 2, name: 'Manchester United'},
  {id: 3, name: 'Real Madrid'},
  {id: 4, name: 'PSG'},
  {id: 5, name: 'Manchester City'},
]
```

App.js - part 1

Let's now take a look at our app.js file. Note that I've also installed react-bootstrap and imported from there the Card and Container component

```js
function App() {
  const [items, setItems] = useState(TEAM_DATA)

  const dataMap = items.map((el, i)=> {
    return (
      <Draggable key={el.id} draggableId={el.id.toString()} index={i}>
        {(provided)=> {
          return(
            <div
              {...provided.draggableProps}
              {...provided.dragHandleProps}
              ref={provided.innerRef}
            >
              <Card
                style={{width:'100%', padding:50, margin:20}}
              >
                {el.name}
              </Card>
            </div>
          )
        }}
      </Draggable>
    )
  })
```

App.js part 2

Below the final part of the code for our simple project

```jsx
const handleOnDragEnd = (res) => {
  const itemsCopy = [...items]
  const [reorderedItem] = itemsCopy.splice(res.source.index, 1)
  itemsCopy.splice(res.destination.index, 0, reorderedItem)
  setItems(itemsCopy)
}

return (
  <div className="App">
    <Container>
      <DragDropContext onDragEnd={handleOnDragEnd}>
        <Droppable droppableId='items'>
        {(provided)=> {
            return (
              <div {...provided.droppableProps} ref={provided.innerRef} >
                {dataMap}
                {provided.placeholder}
              </div>
            )
          }}
        </Droppable>
      </DragDropContext>
    </Container>
  </div>
);
}

export default App;
```