### ****Objective 6: Context API & Routing****

* **Need and Benefits of React Context API**
  + Avoids **prop drilling** by sharing state globally.
  + Ideal for themes, authentication, language, etc.
* **Working with** createContext()

jsx

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const MyContext = React.createContext();

<MyContext.Provider value={value}>

<Component />

</MyContext.Provider>

* **Types of Router Components** (from react-router-dom)
  + <BrowserRouter>: Wraps the entire app for routing.
  + <Routes> / <Switch>: Defines route switching logic.
  + <Route>: Matches and renders components.
  + <Link> / <NavLink>: Navigation without page reload.