

Ep-11 Data is the new Oil

Higher Order Components: is a fn that takes a Component & Returns a Component.

Input:- takes a Component, enhances that Component & Returns it back a new Component.

* Every React Application Two layers

- 1) UI layer (UI layer is bound by Data layer)
- 2) Data layer
↓
(consist of states, props, local variables)

React DevTools ⇒ Chrome Extension for Debugging.

Imp due to Interview

Controlled & Uncontrolled Component

↳ in which your parent Component is controlling Children Component.
→ when children have it's own state & parent Component do have Control over Children Component, then it is Uncontrolled Component.

Props Drilling: React has One-way data flow & passing data from One Component to another Component in huge React App is Very Complex process.

React Context: We can avoid props drilling using React Context
↳ helps to make our data layer more powerful.

- It allows to keep data in Central place. & place data Only to Required Component or all Component
- Context can be used anywhere in the App.
- You have as many as Context in your App.

- How to create a context \Rightarrow using `createContext()` library

`import { createContext } from "react";`

Eg:- `const UserContext = createContext({
 isLoggedIn: "default",
});
export default UserContext;`

50

- How to use your Created Context in Component \Rightarrow using `React Hook useContext()`

`import { useContext } from "react";
import UserContext from "../path/to/context";`

`const data = useContext(UserContext);`

- Only the data which you are using at Multiple places, Only keep that data in Context. Don't put all data in Context.
- Context data can be accessed anywhere in the App.
- You can use Context in another pages also

*** In class-based Component you can't use Hooks ***

So, you cannot use `useContext()` Hook also.

But, there exists a way to use these Hook class-based Component i.e,

- Context is the global space, you can provide to whole app or just a small portion of a app

- You can create multiple context
- You can overwrite anywhere you want

`import your Context file;`

`<UserContext.Consumer>`

`{ (data) \Rightarrow { obj } }`

`} callback fn`

`</UserContext.Consumer>`

} JSX code

To pass new information to our App \Rightarrow use

`<UserContext.Provider value={ { 3 } } >
 < whole App />
</UserContext.Provider>`

it helps to pass new information to whole App
helps to send the data & you can replace the Context data with new data using `Provider`

- The component which is wrapped in `<ContextName.Provider>` the data can be accessed only by the wrapped component.
- If you use `Provider` from a Specific portion you can do that too.