React- Day -8: Context API

Context-API:

- Introduction :

Global State Management

Avoid Prop Drilling

Performance Optimization

What is context, provide, createContext:

createContext():

A context is created using the createContext function. It returns an object with a Provider and a Consume

Provider:

The Provider component is responsible for providing the context value to its children. It takes a value prop, which is the data you want to share.

provide & Multiple (providers & values={[value, setValue]} & multiple states

useContext ():

is used to consume a React context within a functional component.

Avoid props drilling:

It refers to the process of passing props through multiple layers of React components in order to provide data to **deeply nested components.**

Disadvantages:

Maintenance Complexity: If you need to add or modify a prop at the bottom of the component hierarchy, **you have to update every intermediate component.**

Breaking Abstraction: Components in the middle of the hierarchy might receive and pass down props that **they don't use**

Simple practical example
Session task – profile name changes -practical example
Learner Task - a practical example