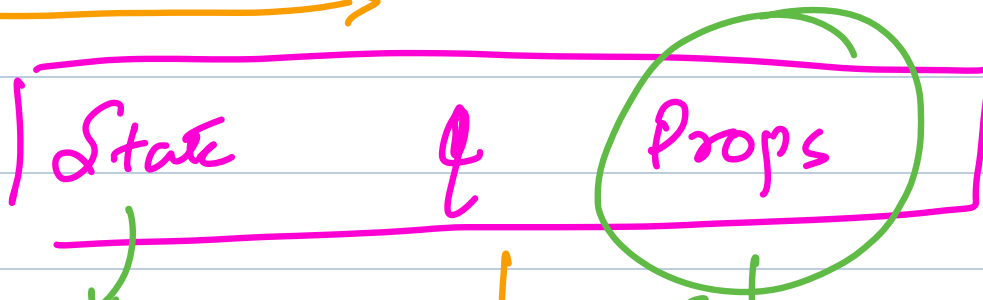


34. React useState & useEffect

Agenda

- Hooks in React
- State in React (useState hooks)
- Forms handling in React
- useEffect Hook (next class)
- Lifting the state up in React
- Rules of hooks

* State in React :



- Initializing state is reqd.
 - Within a Component.
 - State holds data that relevant to a component
 - Mutable
 - Dynamic data.
- External data.
 - Pass data across Components.
 - Data passed from parent → child
 - Immutable. [Props can't be changed]

• Access via Parameters.

Hooks

(v 16.3 / 16.8 onwards)

[Current v. 18.3]

- No more class
- Special functions (inbuilt) + Custom also allows.

• Allows add extra capabilities to functional React component

• Helps to manage state, API calls, Side effects, Reuse logics

• Most used

- Use State
- Use Effect

• Starts with keyword 'use'

* useState → Inbuilt React hook used to manage state in React functional component

When state / changes, React re-renders UI props

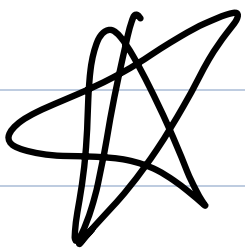
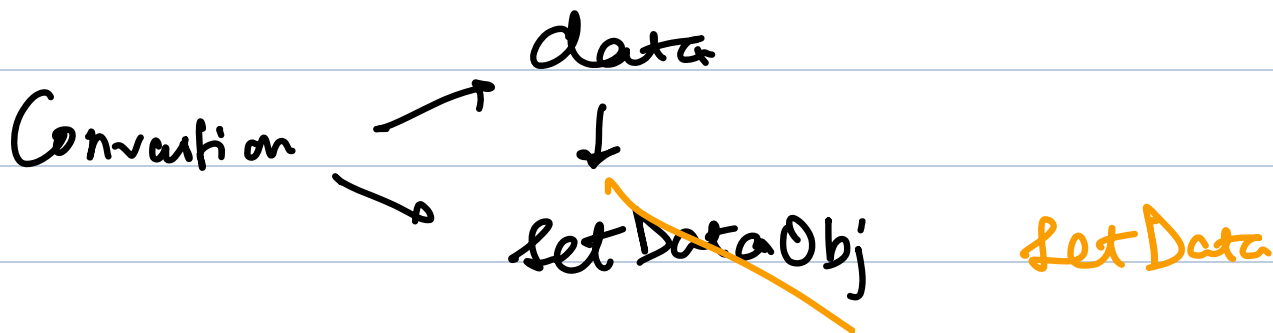
- Hook to manage state → Current state
- Returns array with 2 values → Function to update current state

const [Count, setCount] = useState(100)

State Variable

Function to update my state variable

initial value of state variable



React Only re-renders
UI when state / props
change.

• If Local Variable (non state) changes, React will not know, that I have to re-render UI.

• Variables which depend on UI Change put them in state, else don't

Form

Email :

Name :

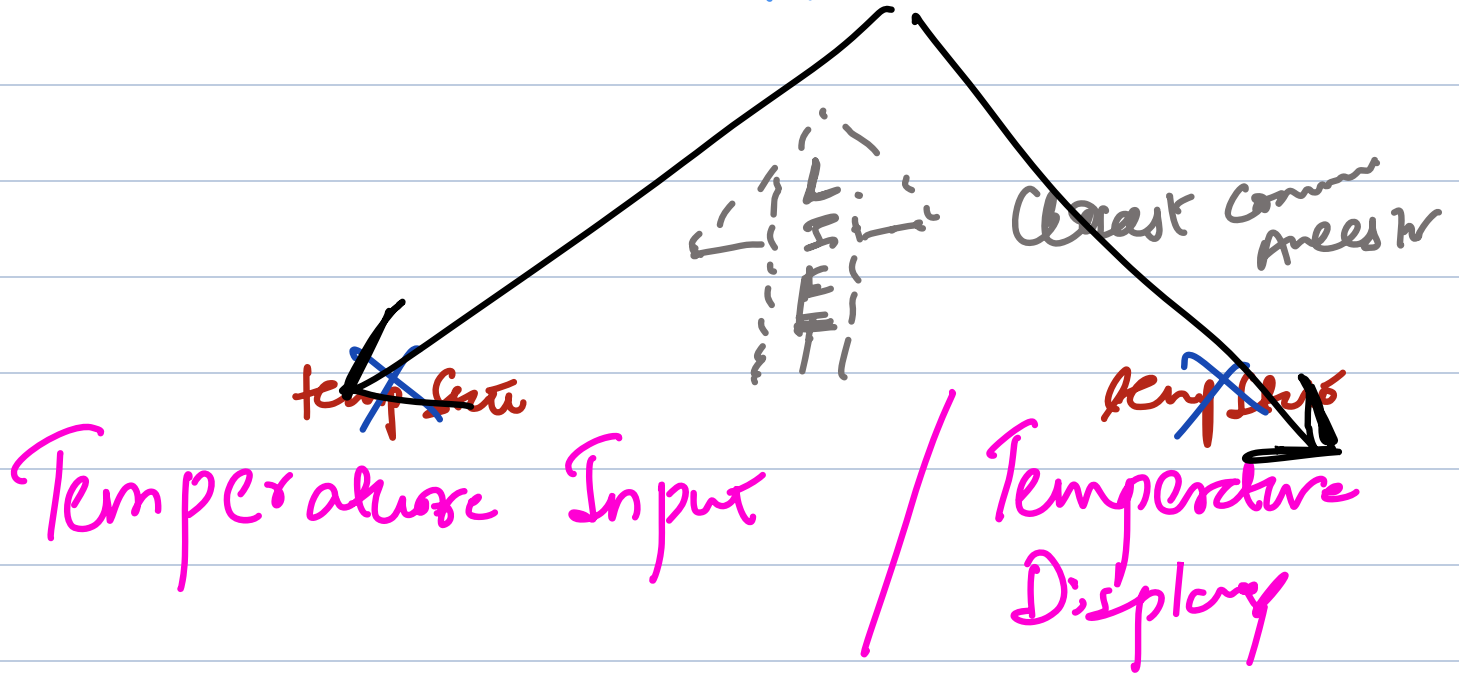


Values Entered

/ Form.jsx.

Lifting the state up ?

<App/> \Rightarrow temp State



Synchronization
Redundancy
Duplication
Inconsistency

Rules of hooks:

- Call hooks at the top level.

→ Can't call hook inside if, for loop, etc.
CANNOT result in infinite

- Call hooks from React function

↳ Don't call hooks from JS functions

↳ Call from React functional components /

Custom hooks /

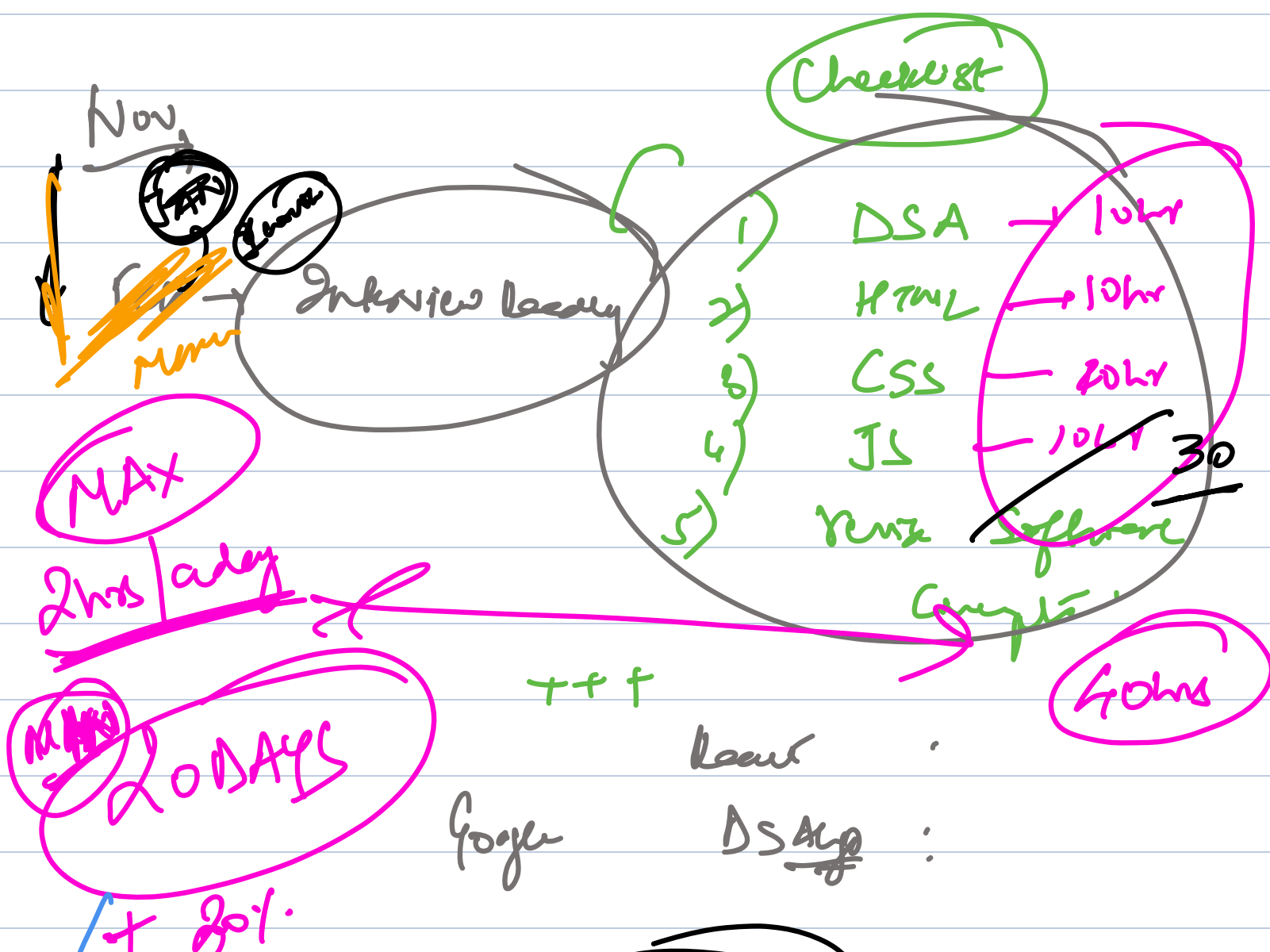
React function.

- Custom hook

↳ Same rules as regular hook

Start with 'use'.

$\text{arr.map}(e \Rightarrow \langle \text{span} \rangle \{ e \} \langle / \text{span} \rangle)$ 1
 $\text{arr.map}(e \Rightarrow (\text{return } \langle \text{span} \rangle \{ e \} \langle / \text{span} \rangle))$ 4
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~~40 Days~~ 60 Days