

1) useState in React

=> useState is React Hooks

=> It's functional component

=> Store, update, Manage data and

Re-render the UI whenever that data
change

Uses :

=> Store Input Value

=> Control & Validate form data

=> User input data Captured

2)

Difference Between Controlled & Uncontrolled Component

Controlled

Input value from state uses Ref to access value.

Onchange handle

the changes

Easy to validate &

control

Uncontrolled

less validate control

HTML form

closer to traditional
html form

3) local storage:

- => Browser Web storage API
- => Store data as key-value pairs
- => Even after page refresh or browser restart

4) JSON:

- => local storage can store only strings, not object or array value, so user can convert the object and array in text or string format using stringify method.

5) HOC

- => Higher Order Component
- => Function takes Component as input & returns a new enhanced component add extra logic & behaviour.

Uses:

- => Reuse common multiple across components.

=> Authentication & Protected Routes

=> Logging & Analytics

=> Conditional Rendering

- 6) React Router
- => Handle Navigation & Routing
 - => SPA Single page Application without reloading the page.
 - => Allows dynamic routing
 - => Manage navigation history

- 7) Use of link tag:
- => Used for navigate without reloading the page.
 - => anchor tag causes a full page refresh.
 - => Navigation faster in link tag

8) Three array method

- map()
 - => Render list of components dynamically
 - => Convert JSX array into JsxElement
- filter()
 - => Remove or Select Specific item of array
 - => Used for delete operation
- find()
 - => Find a single item of an array
 - => Used in edit, login validation or detail view

9) Conditional Rendering

⇒ Showing or hiding UI elements based on conditions.

- ⇒ Improve user experience
- ⇒ Control UI visibility
- ⇒ Avoid unnecessary rendering

10)

useParams:

⇒ React Router hook

⇒ Read dynamic value from URL Path inside a Component.

⇒ Helps to access those values like dynamic segments (ID or names).

Example:

/product/102

Route path = "/product/:id"

element = { <Product id> }

Mainly used in Product detailed page.

User Profile page & fetch data based on ID.