ProSensia Internship Report

Week 6 - Day 5

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Topics: Forms in React, Lifting State Up

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Forms in React

Today, I learned how to handle user input through forms in React. Unlike regular HTML forms where the DOM handles input state, React manages form data using component state (via useState).

Key concepts:

- Controlled components: Inputs that are tied to component state using useState.
- onChange handler: Updates the state with each keystroke.
- onSubmit event: Used to handle form submission.
- Preventing default browser behavior using e.preventDefault().

Example:

jsx

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const [name, setName] = useState("");

<form onSubmit={handleSubmit}>

<input type="text" value={name} onChange={(e) => setName(e.target.value)} />

<button type="submit">Submit</button>

</form>

This gives more control over user data and enables validation, formatting, or conditional logic.



I also learned about *lifting state up*, which is a common React pattern used to share state between sibling components.

Key ideas:

- When multiple components need access to the same data, the shared state should be moved to their **common ancestor**.
- The parent component manages the state and passes it down via props.
- This helps keep state centralized and predictable.

Example use case:

A form with two inputs that affect the same output message.

? Key Takeaways

- React promotes the idea of a single source of truth for form inputs.
- Controlled components provide more flexibility than uncontrolled ones.
- Lifting state up helps manage shared state more effectively and cleanly.