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***REPORT #: W:6,D:5***

***TASK TITLE Forms in React, Lifting State Up***

### ⚛️ React: Forms & Lifting State Up

Forms allow users to input data, and lifting state up enables sharing data between components.

**📝 1. Forms in React**

* **Use**: Capture user input from fields like text, checkbox, select, etc.
* Controlled by **state** using useState.

**✅ Example:**

import { useState } from "react";

function ContactForm() {

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

function handleChange(e) {

setName(e.target.value);

}

return (

<form>

<input type="text" value={name} onChange={handleChange} />

<p>Hello, {name}</p>

</form>

);

}

**⬆️ 2. Lifting State Up**

* **Use**: Move shared state **to the nearest common parent** component.
* Helps **synchronize data** between child components.

**✅ Example:**

function Parent() {

const [message, setMessage] = useState("");

return (

<>

<InputBox setMessage={setMessage} />

<Display message={message} />

</>

);

}

function InputBox({ setMessage }) {

return <input onChange={(e) => setMessage(e.target.value)} />;

}

function Display({ message }) {

return <p>{message}</p>;

}