Day 16 - [10th July 2025]

TOPICS COVERED

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Reading Multiple Input Fields using One useState:

Instead of using multiple state variables, we can manage multiple input fields using one object with a single useState.

```
Example:
import { useState } from "react";
function Form() {
 const [formData, setFormData] = useState({
  name: "",
  email: ""
 });
 function handleChange(e) {
  setFormData({
   ...formData.
   [e.target.name]: e.target.value
  });
 function handleSubmit(e) {
  e.preventDefault();
  alert(`Name: ${formData.name}, Email: ${formData.email}`);
 }
 return (
  <form onSubmit={handleSubmit}>
   <input name="name" onChange={handleChange} value={formData.name} placeholder="Name"</pre>
/>
   <input name="email" onChange={handleChange} value={formData.email} placeholder="Email"</pre>
/>
   <button type="submit">Submit</button>
  </form>
```

}

State Uplifting:

State lifting is the process of moving state up to the closest common ancestor when two or more components need to share the same data.

Example:

Child component sends input data to parent using a callback (props).

Parent holds the state.

Props Drilling & Its Problem:

Props Drilling happens when you pass data through many levels of components even though only a deep child needs it.

Problem:

- Difficult to maintain and understand
- Unnecessary props passed through intermediate components
- Context API (Solution to Props Drilling):
- React's Context API allows you to share data globally without passing props manually at every level.

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Example:

```
import { createContext, useContext } from "react";
const UserContext = createContext();
```

TOOLS USED:

VS Code

React Dev Server

React Context API

Browser (for testing)