# **Training Day 16**

#### **TOPICS COVERED**

### • Uplifting State

Uplifting state means moving the state up to the closest common ancestor of two or more child components that need to share or affect that state.

# Why uplift?

Sometimes sibling components need to communicate, but since React follows one-way data flow (parent  $\rightarrow$  child), we "lift" the state to a common parent.

## **Example:**

InputComponent updates the state, and DisplayComponent reads it — both through the parent.

## Props Drilling

Props are used to pass data down from parent to child components. However, when you pass data through many layers unnecessarily, it becomes props drilling.

```
function App() {
  return <Parent user="xyz" />;
}

function Parent({ user }) {
  return <Child user={user} />;
}

function Child({ user }) {
  return <h2>Hello, {user}!</h2>;
}
```

#### • Context API

The Context API provides a way to share data globally without props drilling.

#### **Useful for:**

Authentication

User info

Theme switching

Language settings

### **Steps:**

// Create context

```
const UserContext = createContext();
// Provide context
function App() {
 return (
  <UserContext.Provider value="xyz">
   <Child />
  </UserContext.Provider>
);
}
// Use context
function Child() {
 const user = useContext(UserContext);
 return <h2>Hello, {user}!</h2>;
}
TOOLS USED
```

Visual Studio Code (VS Code)

React Developer Tools Extension

Browser console