Training Day 16

Day 16 - 10th July 2025

Topics Covered: Uplifting the State, Props Drilling, and Context API in React

Today, we focused on state management patterns in React, specifically **lifting state up**, handling **props drilling**, and solving it using the **Context API**.

1. Uplifting the State

- In scenarios where **two or more child components** need access to the same data, the **common parent** component holds the shared state.
- This promotes **single source of truth** and better coordination between components.

Example:

2. Props Drilling

- The process of passing data from top-level components to deeply nested child components using props.
- It becomes difficult to manage in large apps with deeply nested structures.

3. Context API

• A React feature to avoid props drilling by sharing state globally across components.

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• Consists of React.createContext(), Provider, and useContext() hook.

Example:

Task for Tomorrow:

- Create a small app demonstrating Context API in a real use-case
- Learn about useReducer for complex state management
- Revision of component tree and prop flow

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