

Day 12 – July 1, 2025

Topic: Intermediate React – Hooks & Context API

Introduction

Today I learned advanced React techniques for state management and component interaction.

Hooks

- `useState` and `useEffect` for state and lifecycle management.

Context API

- Global state management to avoid prop drilling.

Example

```
const ThemeContext = React.createContext();
function App() {
  return <ThemeContext.Provider
value="dark"></ThemeContext.Provider>;
}
```

Challenges Faced

- Passing data efficiently through multiple components.

Key Learnings

- Hooks simplify functional components.
- Context API is useful for global state.

Conclusion / Reflection

React becomes more powerful with hooks and context. I'll practice building larger apps using these concepts.