

Day-16 —Learning Deep About React

Date: 17 July 2025

Today's session focused on exploring React concepts in greater depth. Participants moved beyond the basics to understand how React handles component communication, state management, and rendering efficiency. The goal was to gain a deeper understanding of how React applications are structured and optimized.

Topics Covered:

- Understanding Props and how data is passed between components
- State Management using the useState Hook
- Conditional rendering and dynamic content updates
- Component lifecycle and how React updates the DOM efficiently
- Handling events and user input in React
- Working with lists and keys for rendering dynamic data
- Structuring reusable and maintainable React components
- Introduction to useEffect and side effects in React

By the end of the session, participants were able to create interactive components, manage state effectively, and understand how React ensures fast UI updates using the virtual DOM. This deep dive into React fundamentals set the stage for advanced development topics in upcoming sessions.