Day-17 and Onwards — Working on Project: E-commerce Website using React

Date: 17 July 2025 - 24 July 2025

During this period, learners applied the concepts and technologies they had learned so far by working
on a hands-on project — building a fully functional E-commerce website using React. This project helped
participants understand how to integrate different web technologies into a cohesive application and
gain real-world development experience.

Project Objectives:
• Develop a responsive and user-friendly E-commerce front-end using React
• Implement component-based architecture for reusability and scalability
• Use React Router for navigation between product listings, cart, and checkout pages
• Manage state using React Hooks (useState, useEffect)
• Handle events for adding/removing products from the cart
• Integrate dummy JSON data or APIs to simulate real product listings
• Style the website using Bootstrap and custom CSS
• Deploy the React application locally and test all components

Key Features Implemented:
• Homepage showcasing featured products
• Product details page with dynamic rendering
• Shopping cart functionality with total calculation
• Checkout form with basic validation
• Responsive design ensuring compatibility across devices

By the end of the project phase, participants successfully created a working prototype of an E-commerce
website. This project not only demonstrated their understanding of React concepts but also prepared
them for building professional-level web applications in the future.