

# Day-15 — Introduction to React & React Environment Setup

Date: 16 July 2025

Today's session introduced learners to React — a powerful JavaScript library developed by Facebook for building fast, dynamic, and component-based user interfaces. The session covered the fundamentals of React and the setup process for a local React development environment.

Topics Covered:

- What is React and why it is used in modern web development
- Understanding Single Page Applications (SPAs)
- Setting up Node.js and npm (Node Package Manager)
- Installing React using Create React App (CRA)
- Folder structure and key files in a React project
- Running and testing a React application locally
- JSX syntax and how it integrates JavaScript with HTML-like syntax
- Introduction to React Components (Functional vs Class Components)

By the end of the session, participants were able to successfully set up a React environment, run their first React app, and understand the role of components in building modular UI structures.

This marked the beginning of their journey into front-end development using React.