15-Day React.js and Node.js Course

Day 1-2: Introduction to JavaScript and Node.js

- JavaScript fundamentals (ES6+ features)
- Node.js installation and setup
- Understanding the Node.js runtime and event-driven architecture
- Basic server creation with Node.js and Express.js
- Handling HTTP requests (GET, POST, PUT, DELETE)

Day 3-4: Node.js and Express.js Basics

- Setting up Express.js to handle routes and requests
- Middleware in Express.js
- Handling JSON and form data in Express
- Introduction to RESTful API design

Day 5-7: Introduction to React.js

- Setting up a React environment (Create React App)
- Understanding components, props, and state
- Functional components and React hooks (useState, useEffect)
- Handling events and form submissions in React

Day 8-10: Connecting React with Node.js Backend

- Setting up Axios to make HTTP requests from React
- Fetching data from Node.js backend and displaying it in React
- Managing state in React with hooks
- Building dynamic forms in React

Day 11-13: Authentication and Authorization

- Implementing user authentication with JWT (JSON Web Tokens)
- Storing and managing tokens in localStorage or cookies
- Protecting routes and ensuring only authorized users can access certain pages
- Basic session management with JWT

Day 14-15: Final Project and Review

- Build a simple full-stack application with React and Node.js
- Testing, debugging, and deployment on platforms like Heroku

- Final project review and presentation