

# React.js: Building Modern UIs

Learn how to build modern UIs using React.js and its powerful components.

Category: Programming · Duration: 4 days

## WHO IT IS FOR

- Front-end developers
- Teams that want hands-on practice on real scenarios

In this course, you will learn how to leverage React.js to build modern and interactive user interfaces. Through hands-on exercises and project-based learning, you will gain a deep understanding of React.js fundamentals, including components, props, state management, and routing. By the end of the course, you will be equipped with the skills to develop powerful UIs that deliver exceptional user experiences.

## Prerequisites

Basic knowledge of HTML, CSS, and JavaScript is required. Familiarity with front-end development concepts and tools is recommended.

## Syllabus

- Introduction to React.js and its benefits
- Setting up your development environment
- Creating and rendering React components
- Managing state and props in React
- Handling user interactions with event handling
- Routing and navigation with React Router
- Working with forms and form validation
- Implementing responsive design with React
- Optimizing performance with React.memo and React.lazy
- Working with APIs and making asynchronous requests
- Using React hooks for state management
- Unit testing React components with Jest and Enzyme
- Integrating React with Redux for state management
- Securing React applications with best practices
- Deploying React applications to production

- Building reusable UI components with styled-components
- Debugging and troubleshooting React applications
- Optimizing SEO for React applications
- Integrating third-party libraries and plugins
- Project-based learning: building a real-world React application