

ReactJs Training

Syllabus by e-Coding Hub Pvt. Ltd.

Embark on an exciting journey into the world of dynamic and interactive web development with our expertly crafted React.js course in Mohali. Our comprehensive curriculum is meticulously designed for aspiring developers like you. Dive into the fundamentals of React.js, mastering components, state management, and building real-time, responsive user interfaces. By the end of the course, you'll confidently create your first website using React.js. Elevate your skills and join us in shaping the future of web development!

Fundamentals

- ➔ Understand the basics of HTML, CSS, and JavaScript thoroughly
- ➔ Dive into the Document Object Model (DOM) manipulation techniques
- ➔ Master version control with Git for collaborative development.
- ➔ Explore responsive design principles for optimal user experiences
- ➔ Familiarize yourself with browser developer tools for efficient debugging.

Introduction to React

- ➔ Grasp the basic concepts of React, emphasizing the virtual DOM
- ➔ Explore different React boilerplates and project structures.
- ➔ Understand the significance of Babel for transpiling JSX and ES6+ code.
- ➔ Set up a development environment with Node.js, npm, and a code editor.
- ➔ Incorporate Webpack for bundling and optimizing your React application.

Component and Props

- ➔ Deepen your understanding of components and props through advanced use cases.
- ➔ Explore the concept of prop drilling and solutions like Context API or Redux.
- ➔ Delve into React Fragments for cleaner component structures.
- ➔ Deepen your understanding of components and props through advanced use cases.
- ➔ Enhance components with PropTypes for robust type checking.

State and Lifecycle

- ➔ Learn about component state and lifecycle methods comprehensively.
- ➔ Implement PureComponent and React.memo for optimizing renders.
- ➔ Familiarize yourself with React's StrictMode for identifying potential issues.
- ➔ Explore error boundaries for gracefully handling unexpected issues.
- ➔ Dive into the React DevTools for efficient debugging and profiling.

Handling Events

- ➔ Explore advanced event handling patterns, such as event delegation.
- ➔ Implement custom events for communication between components.
- ➔ Master performance optimization techniques related to event handling.
- ➔ Utilize synthetic events and their properties for more granular control.
- ➔ Delve into popular event management libraries like Redux-Saga.

Conditional Rendering

- ➔ Learn advanced techniques for conditional rendering, such as render props.
- ➔ Explore dynamic imports and code-splitting for optimized loading.
- ➔ Master the usage of React's context to streamline conditional logic.
- ➔ Implement error boundaries for handling errors during rendering.
- ➔ Understand the role of fragments in conditional rendering scenarios.

Working with Forms

- ➔ Master form handling in React, covering controlled and uncontrolled components.
- ➔ Implement form validation strategies for enhanced user input control.
- ➔ Understand accessibility considerations when designing React forms.
- ➔ Explore form libraries like Formik for efficient form management.
- ➔ Dive into the intricacies of handling various form elements in React.

React Router

- ➔ Integrate React Router for seamless navigation in your applications.
- ➔ Implement nested routes for complex navigation structures.
- ➔ Master code-splitting techniques for optimizing route-based loading.
- ➔ Understand the different types of routers and their use cases.
- ➔ Explore route guards and authentication strategies with React Router.

HTTP Requests

- ➔ Learn how to make asynchronous API calls in React applications
- ➔ Explore different libraries and tools for handling HTTP requests.
- ➔ Dive into error handling and data caching strategies for robust applications.
- ➔ Understand the lifecycle methods involved in fetching and updating data.
- ➔ Implement state management solutions for efficient data handling.

React Frameworks

Candidates who will be quick learners, we will teach them Frameworks like Next js after React js.