



KIDS & TEENS FREELANCING TRAINING INSTITUTE

React JS Training Course Outline

Module 1: Introduction to React JS

- What is React JS and why it's popular for building modern web apps
 - Real-life example: A digital display board where content changes dynamically (React components)
 - Setting up your development environment (Node.js, npm, Create React App)
 - Understanding the basics of React: Components, JSX, and Virtual DOM
 - Activity: Create your first "Hello World" React app
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Module 2: React Components and JSX

- What are components in React and how they structure your app
 - Real-life example: Building blocks of a website (header, footer, content)
 - Understanding JSX and how it makes HTML-like syntax work in JavaScript
 - Creating functional and class-based components
 - Activity: Build a simple webpage using React components and JSX
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Module 3: Handling State and Events in React

- What is state and how it controls dynamic content in React
 - Real-life example: A to-do list that adds and removes tasks (state management)
 - Handling user interactions with events like clicks and form submissions
 - Activity: Build a counter app that increases the count when a button is pressed
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Module 4: React Forms and Controlled Components

- Understanding controlled components in React
- Real-life example: A form where data is captured and managed in real time

- Handling form submissions, input validation, and resetting form data
 - Activity: Create a contact form with controlled inputs and submit the data
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Module 5: React Router – Navigating Between Pages

- What is React Router and why it's essential for multi-page React apps
 - Real-life example: A multi-page website with navigation links
 - Setting up routes, links, and route parameters with React Router
 - Activity: Build an app with multiple pages and navigation links using React Router
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Module 6: Fetching Data with React and Axios

- How to fetch data from external APIs and display it in React components
 - Real-life example: A news website that fetches the latest articles from an API
 - Using Axios or the Fetch API to retrieve data asynchronously
 - Activity: Build an app that fetches and displays data from a public API (e.g., JSONPlaceholder)
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Module 7: React Lifecycle Methods

- What are lifecycle methods in React and when to use them
 - Real-life example: A plant that needs watering (component mounting and unmounting)
 - Understanding `componentDidMount()`, `componentWillUnmount()`, and other lifecycle methods in class components
 - Using `useEffect()` for lifecycle-like behavior in functional components
 - Activity: Create a component that fetches data when mounted using lifecycle methods
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Module 8: Final Project – Build a Complete React App

- Plan and build a fully functional React web app using components, state, and React Router
 - Use data fetching, form handling, and lifecycle methods
 - Test your app locally and debug common issues
 - Activity: Present your final project, explaining how you used React concepts
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Bonus Materials

- React JS cheat sheet with component lifecycle and hooks
- Links to React libraries for routing, state management (Redux, Context API)
- List of free React resources, tutorials, and community forums
- Interactive coding challenges and quizzes
- Certificate of Completion for React JS Basics