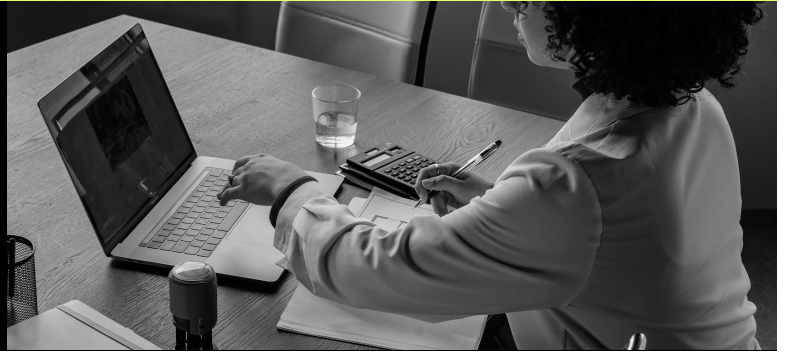


# TTH

## React JS

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**"ReactJS: Where user interfaces become dynamic, components come to life, and the virtual DOM makes the web more responsive. Building user experiences with React is not just about coding; it's about crafting seamless, scalable, and interactive journeys for every user."**

Course content:

### 1. HTML (HyperText Markup Language):

- Introduction to HTML
- HTML Document Structure
- HTML Tags and Elements
- HTML Forms and Input Elements
- Semantic HTML5 Elements

### 2. CSS (Cascading Style Sheets):

- Introduction to CSS
- CSS Selectors and Properties
- Box Model and Layout
- Flexbox and Grid Layout
- Responsive Web Design with Media Queries

### 3. JavaScript:

- Introduction to JavaScript
- Variables, Data Types, and Operators
- Arrays and Objects and their methods
- Control Flow (if statements, loops)
- Functions and Scope
- DOM Manipulation and Event Handling
- Asynchronous JavaScript (Callbacks, Promises, Async/Await)

### 4. ReactJS:

#### a. React Basics:

- Introduction to React

- JSX (JavaScript XML) syntax
- Components and Props
- State and Lifecycle

#### **b. React Components:**

- Functional Components
- Class Components
- Component Lifecycle Methods

#### **c. Handling Events:**

- Event Handling in React
- Form Handling in React

#### **d. React Router:**

- Client-Side Routing in React
- Navigation with React Router

#### **e. State Management:**

- State lifting and prop drilling
- Context API for state management
- State management with Redux (optional)

#### **f. State Management with Redux:**

- Introduction to Redux
- Actions, Reducers, and Store
- Connecting React with Redux
- Async Operations with Redux Thunk

#### **g. Hooks:**

- useState, useEffect, useContext, etc.
- Custom Hooks

#### **h. Building and Styling React Apps:**

- Create React App (CRA)
- Styling in React (CSS-in-JS libraries, etc.)

#### **i. API Integration:**

- Fetching data from APIs
- Axios or Fetch for HTTP requests

#### **j. Testing in React:**

- Unit Testing with Jest and React Testing Library

**k. Deployment:**

- Deploying React Apps (e.g., Netlify, Vercel, GitHub Pages)

**5. Project Work:**

- Building a complete web application using HTML, CSS, JavaScript, and ReactJS
- Applying learned concepts to solve real-world problems

**6. Best Practices and Coding Standards:**

- Writing clean and maintainable code
- Following industry best practices