

ReactJS

Module 1. Introduction to React.js

Setting up a React development environment (e.g., Node.js, npm, Create React App)

Module 2. Creating Your First React Application

Hello World example

Understanding React components

JSX syntax

Module 3. Understanding Components and Props

Functional components

Class components

Passing and using props

Module 4. State and Lifecycle

State in React components

Updating state

Component lifecycle methods

Module 5. React Hooks

useState()

useEffect()

useContext()

Module 6. Handling Events

Event handling in React

Binding event handlers

Arrow functions vs. regular functions

Module 7. Working with Forms

Controlled components

Handling form submission

Form validation

Module 8. Conditional Rendering

Conditional rendering with if statements

Ternary operators and logical && in JSX

Our Courses

Java Full Stack, Dotnet Full Stack, Python Full Stack, Data Science (AI & ML), Front End – Angular, Front End – React, Testing, Tools – QA, Digital Marketing, Tally, MS Office, C & DS, Java, Advanced Java, Azure Devops, UI Technologies

Module 9. Lists and Keys

Rendering Lists
Using .map() to render lists of elements
Providing a key for each item

Module 10. Understanding Keys

The importance of keys in React
Choosing the correct key

Module 11. Styling in React.js

CSS in React
Different approaches for styling (CSS, CSS-in-JS, CSS Modules)
Inline styles
Styling Libraries
Popular CSS frameworks (e.g., Bootstrap, Material-UI)

Module 12. React Router

Introduction to React Router
Setting up React Router
Creating routes
Navigating with React Router
Using Link and NavLink
Nested Routes and Dynamic Routing
Nested routes
Passing parameters to routes

Module 13. State Management with Redux

Introduction to Redux
Understanding the need for state management
Basic concepts: actions, reducers, store
Setting Up Redux
Installing Redux and setting up a store
Creating actions and reducers
Connecting React with Redux
Using connect to connect components to the store
Dispatching actions

Module 14. Asynchronous Programming and API Integration

AJAX and Fetch API
Making HTTP requests in React
Fetching data from an API
Async/Await and Promises

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Module 15. Handling errors in React applications

Error Handling and Debugging
Debugging React apps
Performance Optimization
Memoization
React.memo and PureComponent

Module 16. Deploying a React application

Deployment Cloud Services (Netlify, Vercel, AWS)

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