

"React JS Developer"

Course Outline

Module 1: Introduction to React

1.1 **Welcome and Course Overview**

- Introduction to the course
- Overview of what participants will learn

1.2 **Introduction to React**

- What is React?
- Why use React?
- Key features and advantages

1.3 **Setting Up the Development Environment**

- Installing Node.js and npm
- Setting up a basic React project with Create React App

Module 2: Getting Started with Components

2.1 **Understanding Components**

- Introduction to components
- Functional components vs. class components

2.2 **Creating Your First Component**

- Building a simple React component
- JSX syntax

2.3 **Component Props**

- Passing data to components
- Using props to customize components

Module 3: State and Lifecycle

3.1 ****Understanding State****

- Introduction to state in React
- When to use state

3.2 ****Handling Events****

- Event handling in React
- Using event handlers in components

3.3 ****Component Lifecycle****

- Overview of the component lifecycle
- Key lifecycle methods

Module 4: React Hooks

4.1 ****Introduction to Hooks****

- Understanding the need for hooks
- Overview of key hooks (useState, useEffect)

4.2 ****useState Hook****

- Managing state in functional components

4.3 ****useEffect Hook****

- Managing side effects in functional components

Module 5: Working with Forms

5.1 ****Forms in React****

- Creating forms with React
- Handling form submissions

5.2 ****Form Validation****

- Implementing basic form validation
- Handling user input

Module 6: React Router (Navigation)

6.1 ****Introduction to React Router****

- Implementing navigation in a React application
- Setting up routes

6.2 ****Navigating Between Routes****

- Creating navigation links
- Switching between different views

Module 7: State Management with Context API

7.1 ****Introduction to Context API****

- Managing state at a global level
- Using Context to share data between components

7.2 ****Context API in Practice****

- Implementing context in a React application

Module 8: Building a Simple React Project

8.1 **Putting It All Together**

- Building a small project to reinforce concepts
- Applying the knowledge gained throughout the course

Module 9: Best Practices and Tips

9.1 **React Best Practices**

- Coding standards and conventions

Module 10: Conclusion and Next Steps

10.2 **Next Steps in React Learning**

- Resources for further learning
- Suggestions for real-world projects