Developing Applications using ReactJS Training

Duration: **4 Day**

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React is one of the most widely adopted JavaScript libraries for building modern, responsive, and scalable web applications. Its component-based architecture and efficient rendering model enable developers to create maintainable single-page applications for both small projects and enterprise-scale solutions.

Developing Applications using ReactJS is a hands-on training programme that provides a practical introduction to building applications with React. Participants progressively develop a real-world project while learning core concepts such as components, props, state management, routing, hooks, forms, Context API, and external service integration.

Throughout the programme, learners gain practical experience with modern React development techniques and best practices used in professional software projects.

Prerequisites

Participants are recommended to have:

- At least one year of software or web application development experience
- Strong practical knowledge of HTML and CSS
- Good JavaScript programming skills
- Familiarity with modern web development concepts

Who Should Attend

This programme is designed for:

- Front-End Developers
- Software Engineers
- Full-Stack Developers
- JavaScript developers transitioning to React
- Development teams building modern web applications

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What You Will Learn

After completing this course, participants will be able to:

- Install and configure React development environments.
- Build applications using both Function Components and Class Components.
- Design reusable component hierarchies.
- Pass data between components using props.
- Manage application state effectively.
- Implement conditional rendering and dynamic lists.
- Create and manage forms in React.
- Handle inverse data flow using callback functions.
- Apply React Hooks, including useEffect, within applications.
- Consume REST APIs and integrate external services.
- Configure navigation using React Router.
- Implement application-wide state management with Context API.

Training Outline

Module 1 – Introduction to React

- React fundamentals
- Benefits of React
- Virtual DOM
- Creating a React project
- Project structure

Module 2 – Components

- Component architecture
- Function Components
- Class Components
- Dynamic content
- Header and Footer components
- Component organisation

Module 3 – Props

- Understanding props
- Component communication
- Data flow
- Default props
- Prop validation

Module 4 – Working with Static Data

- Local datasets
- Importing JSON data
- Rendering collections with map()
- Managing static data

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Module 5 – Forms

- Building React forms
- Form events
- State-driven forms
- User input handling
- Basic validation

Module 6 – Conditional Rendering

- Conditional rendering techniques
- Rendering lists
- Dynamic content
- Data-driven interfaces

Module 7 – Event Handling

- Event handling
- User interaction
- Component events
- Callback functions

Module 8 – State Management

- Understanding state
- Creating and updating state
- Managing application state

Module 9 – Inverse Data Flow

- Parent-to-child communication
- Child-to-parent communication
- Callback implementation

Module 10 – React Hooks

- Hook fundamentals
- useEffect
- Hook lifecycle
- Managing side effects

Module 11 – External Services and APIs

- HTTP requests
- REST APIs
- JSON Server
- Fetching, creating and updating data
- Using useEffect with external services

Module 12 – Routing

- React Router
- Single Page Application architecture

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- Route configuration
- Navigation
- Parameterised routes
- Passing props through routes

Module 13 – Context API

- React Context fundamentals
- Common use cases
- Global state management
- Using sessionStorage with React