REACT Foundations

Duration: 2 Days   Course Code: GK840204

Overview:

Learn to build dynamic user interfaces with React in our comprehensive foundation course.

React Foundation offers a thorough introduction to React, a widely-used JavaScript library for building user interfaces. This course covers essential and advanced topics, including component-based architecture, state management with hooks, and styling techniques. Participants will learn to set up a React development environment, create reusable components, manage data flow, and handle side effects with the useEffect hook.

By the end of the course, you will learn to construct JSX elements, implement prop patterns, manage state, and debug React applications effectively. You will be equipped to build high-performance, scalable, and maintainable web applications.

This course includes hands-on practice through labs and exercises, reinforcing the concepts covered in the lectures - a balanced mix of theoretical knowledge and practical application, ensuring a comprehensive learning experience.

Target Audience:

- Front-End Developers
- Web Developers
- Software Engineers
- Technical professionals

Objectives:

- Set up a React development environment and create an initial application structure.

- Construct JSX elements to build React component structures and handle dynamic content.

- Build reusable React components applying composition patterns.

- Implement prop patterns to pass data and event handlers between components.

- Use state hooks to manage component data and handle user interactions.

- Integrate data flow patterns to manage component communication and state sharing.

- Implement container and presentational component patterns to organize React applications effectively.

- Apply styling using CSS modules and styling organization patterns.

- Use the useEffect hook to manage side effects and component lifecycle needs.

- Build form interfaces using both controlled and uncontrolled form patterns.

- Use React Developer Tools to debug component issues and analyze application performance.

Prerequisites:

This is an intermediate level course for those looking to expand their skill set and master REACT. Learners should have proficiency in JavaScript, HTML, and CSS.

- GK840201 - Fundamentals of JavaScript

Content:

- What is a component?
- Creating your first component
- Single line and multiline JSX in a component
- Importing and exporting components
- Rendering a component

containers

React Data Flow

- One-way data flow concept
- Parent/Child communication patterns
- Sibling/Sibling communication
- Understanding prop drilling
- Lifting state up as a solution

- Props and state inspection
- Component tree navigation

Debugging React Applications

- Common React errors and solutions

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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