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Course Name : A WEB APP WITH REACT
Duration : 3 Days (Physical Classroom / Virtual Live Instructor)
Skill Level : Beginner

COURSE DESCRIPTION:
In this project-based React training course, we will commence with a blank folder and construct a comprehensive web application that covers all the essential elements required to commence building production-ready applications with React, including routing and AJAX requests.

WHAT WILL YOU LEARN?
As the course is project-based, the participants will immediately start building, providing them with a hands-on experience with React and an opportunity to master the necessary skills. Upon completion of the course, the participants will have developed a fully functional Airbnb clone project from beginning to end.

Throughout the course, participants will learn to program with the latest version of React and will delve into the fundamental concepts that make this framework so powerful.

PREREQUISITE:
Beginners. Prior JavaScript helps but is not mandatory.

METHODOLOGY:
This program will be conducted with interactive lectures, PowerPoint presentations, discussions, and practical exercises. This course can be conducted as instructor-led (ILT) or virtual instructor-led training (VILT).

JOB SCOPE:
Upon completion of this course, candidates may pursue the following career paths:

- Front-end developer
- UI/UX developer
- Full-stack developer
- Web developer
- React Native developer
- JavaScript developer
- Mobile app developer
- Single-page application developer
- E-commerce developer
- Software Engineer.

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DAY I

MODULE 1: INTRODUCTION
- Welcome
- Introduction to React
- History

MODULE 2: ADVANCED JAVASCRIPT | ES6
- Variable Declaration
- Constant Declaration
- Arrow Function Syntax
- Template Literals
- Implicit Returns
- Key/Property Shorthand
- Method Definition Shorthand
- De-Structuring (Object Matching)
- Array Iteration (Looping)
- Default Parameters
- Spread Syntax
- Classes/Constructor Functions
- Inheritance
- Modules – Export/Import
- Promises/Callbacks

MODULE 3: DEV ENVIRONMENT SETUP
- Add React to a Website
- Create a New React App
- CDN Links
- Hello World

DAY 2

MODULE 4: INTRODUCING JSX
- Why JSX?
- Embedding Expressions in JSX
- JSX is an Expression Too
- Specifying Attributes with JSX
- Specifying Children with JSX
- JSX Prevents Injection Attacks
- JSX Represents Objects

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MODULE 5: COMPONENTS
- Generating a project with Create React App
- Touring a Create React App project
- DE structuring arrays and objects
- Understanding the useState Hook
- Working with useEffect
- Understanding the dependency array
- Incorporating useReducer

MODULE 6: STATE IN THE COMPONENT TREE
- Working with uncontrolled components
- Creating controlled form elements
- Building a custom Hook
- Choosing a form library

DAY 3

MODULE 7: HANDLING FORMS
- Fetching data with Hooks
- Displaying data from an API
- Handling loading states
- Fetching data with GraphQL
- Working with render props

MODULE 8: ASYNCHRONOUS REACT
- Installing React Router v6
- Configuring the Router
- Incorporating the Link component
- Nesting links with React Router

MODULE 9: PROJECT: MOVIE SEARCH ENGINE

CLONE CONCLUSION
- QA
- Useful References and Books
- Feedback