ReactJS Training

Total Duration : 40 hours

What is React JS?

- React JS Introduction
- Advantages of React JS
- Work flow of React JS
- Scope of React JS

Overview of JSX

- Introduction of Virtual DOM.
- Difference between JS and JSX.
- React Components overview
- Containers and components
- What is Child Components?
- What is Namespaced components?
- What are the JavaScript expressions available in JSX?

React JS Environment Setups

- Node setup
- How to use NPM?
- How to create package.json and purpose of it?
- ES6 Introduction and features.
- Webpack Overview
- Best IDE for React JS and How to write optimized code in React JS?
- React JS browser plugins overview.

A Real-Time Application by using React JS

- Create a React component with JSX template.
- How to create Nested Components?
- What is React JS render?
- React Props overview.
- Introduction of Props validation with data types.
- Flow of States, Initialize states and update states.

React JS forms and UI

- Lists of Form components.
- Setup Controlled and Uncontrolled form components.
- Control Input elements.
- How to set default values on all formats of Input elements.
- React JS Form validations.

- How to write Styles?
- Animations overview

React JS Component Life Cycles Overview

- Initial Render
- Props Change
- Stage Change
- Component willMount
- Component didMount
- Component Unmount

Routing in React JS and Other JS concepts

- Single Page Application Overview.
- How to configure React Router?
- History of Router
- How to Handle Conditional statement in JSX?
- IIFE in JSX for complex logic overview.

Event Handling in JSX

- onBlur, onKeyUp, onChange and other useful primary events in React JS.
- How to Sharing events between the components?

How to write Styles in React JS?

- CSS and inline styles in React JS overview.
- Introduction to styled components

UX/UI Design

- Introduction to material UI design
- Fragment

React Router with Navigation

- How to Load the router library?
- Configure the React Router?
- How to Pass and receive parameters?
- Integration of React-cookie overview.

Flux overview

- What is Flux Architecture?
- What are the Flux Components available?
  - Stores.
  - Dispatchers.
  - View Controllers.
  - Actions.

- o Views.
- How Flux works?
- Flux and React works together.

Redux Overview

- Redux
- Redux-thunk

Making Api with Axios

Advanced Topics

- Context API
- Render props
- React hooks
- HOC Pattern
- Code-splitting and lazy loading
- Apply (MVVM) architectural pattern into a React

Introduction to third party libraries
- Top third party react libraries that can be used readily
- Enzyme
- React Virtualized
- React DnD

Testing

- Unit testing using JEST
- Unit testing using MOCHA – setup is difficult. But mocking is easy
- Automation testing of React applications