

ReactJS: Course Details

Description:

React is a popular, high-performance JavaScript library for building rapidly responsive user interfaces.

Duration: 5 days

Objectives:

All participants would

Understand what React library is and what problem it solves Gain a deeper knowledge of ES2015 and JSX. Implement UI hierarchy using React components.

Pre-Course Requirements:

Good knowledge of both HTML, OOP, and JavaScript (ES5) required for attending this course.

Day 1

- Introduction to ES6 Classes
- scopes: let and const Arrow functions Destructuring Spread Operator Promise Concept
- Introduction to React.js Why use?
- Comparison with other frameworks Components
- Virtual DOM JSX
- Hands-on exercises

Day 2

- The Core of React
- Class DOM
- Factory render
- React Components - stateful & stateless Elements.
- Lifecycle State Props
- Invoking web services
- Components inter communication:
- Parent and child component Communication Uses of function delegation
- Handling events
- Tools:
- Chrome plugin for React Webpack, Babel
- Hands-on exercises

Day 3

- Introduction to Immutability Pure functions
- Use of HOC



- Container components Use of React Hooks Context Object
- Redux Router Security Aspects JWT Token
- Handling large amount of data Hands-on exercises

Day 4

- Concept of State Management Introduction to Redux
- Provider Reducers Middleware Store
- Integration with React Use of Redux Form
- Hands-on exercises

Day 5

- Unit Testing (Jest / testing lib) Mechanism: Testing DOM Manipulations
- Testing Properties and State Testing Reducers
- Testing Action Creators Best Practices
- Brief Intro to Typescript Why TypeScript?
- Basic Type Interfaces Classes Modules
- Hands-on exercises