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App Devt using React & Redux: Course Details

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

Suggested Audience
Suited for UI developers / architects who would like to work on React.

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
    Make HTTP calls to interact with Rest endpoints.
    Implement React best practices

Pre-Course Requirements:
Good knowledge of both HTML, OOP and Javascript (ES5) required for
attending this course.

Note:
Optimum Size per batch: 15 participants (max: 18).
Timings: 9 am to 5 pm

Setup Reqt:
a) Hardware: PC / laptop with Win OS
a) IDE like VS Code; (b) Reactjs (latest); (c) nodejs (latest)

Internet connection is reqd to be provided.
Chrome browser would be used for devt.

Day 1

Introduction to ES6
    Classes
    let and const
    Arrow functions
    Destructuring
    Spread Operator

Introduction to React.js
> Why use?
> Comparison with other frameworks
> Components
> JSX

Hands-on exercises

Day 2

The Core of React
> Class
> Virtual DOM
> Factory
React Components
> Lifecycle
> State
> Props
> Invoking web services
> Reconciliation algorithm

Component 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

Stateless and stateful components
Use of HOC
Container components
Use of React Hooks
Context Object

Redux Router

Concept of State Management
Introduction to Redux

Provider
Reducers
Middleware
Store
Integration with React

Best Practices

Hands-on exercises