



Curriculum Of React JS

REACT JS

MODULE 1: INTRODUCTION OF JAVASCRIPT ES 5 AND ES6

- Basic Javascript
- Object Based Javascript
- Introduction to ES6
- JavaScript Helpers (forEach, filter, map, filter, every, some)
- String Literals
- DE structuring
- Rest parameters & spread operator
- Arrow function
- Default parameter
- Class: Inheritance, constructor, Promise

MODULE 2: INTRODUCTION TO REACTJS

- What React JS?
- Why use React JS?
- What is Single Page Application?
- Why SPA?
- React JS Version

REACT DOM

REACT VIRTUAL DOM

SET UP REACT JS ENVIRONMENT

- What is CLI: create-react-app project name
- Advantage using CLI
- How to debug React JS application.
- Installation CLI
- Install Node JS & React JS
- Create a hello world example
- Create React JS Project
- Understanding of Folder Structure
- How to debug React JS application
- Introduction of Babel

MODULE 3: BASIC FEATURES OF REACTJS AND COMPONENTS

- React Concepts, JSX
- Render Elements
- Types of Components, Class Components
- Life Cycle Method of Class components
- Functional Components
- HOOKS in detail
- Use of HOOK
- What is state
- React Forms
- Components and Props
- State and Lifecycle Handling Events
- Practice on above topics

MODULE 4: ROUTING WITH REACT ROUTER

- Setting Up React router
- Install/Uninstall React router
- React Router Version 5 & 6
- Setting up react router
- Understand routing in single page applications
- Working with Browser Router components
- Configuring route with Route component
- Making routes dynamic using Route params
- Working with nested routes
- Navigating to pages using Link and Nav Link Component
- Redirect routes using Redirect Component

MODULE 5: KEY FEATURES OF REACTJS

- Conditional Rendering
- Lists and Keys
- Forms



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MODULE 6: EVENT HANDLING IN REACT

- Understanding React event system
- Passing arguments to event handlers

MODULE 7: WORKING WITH FORMS

- Controlled components
- Understand the significance to default Value
- Prop
- Using react ref prop to get access to DOM element

MODULE 7: INTRODUCTION TO REDUX

- What is React Redux
- Why React Redux
- Redux Install and setup
- Actions
- Reducers
- Store
- High Order Component
- Understanding map State To Props & map Dspatch To Props Usage

MODULE 8: REDUX ADVANCED

- Async Actions
- Middleware
- What is redux saga
- Install and set up redux saga
- Working with Saga helpers (Crud Operation)
- Sagas vs Promises

MODULE 9: REACT WITH DESIGN

FRAMEWORK

- Material UI for design
- Formik Validation

MODULE 10: REACT API'S

- Introduction https Request
- The path Module
- Building a Web server
- HTTP Request Methods, Headers
- Response Codes and Headers
- Introduction Axios NPM
- Introduction Slider NPM
- Integration of any NPM modules
- Introduction of Google Map NPM