

React JS Course Syllabus

Module 1: What is React JS?

- React JS Introduction
- Advantages of React JS
- Workflow of React JS
- Scope of React JS

Module 2: Overview of JSX

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

Module 3: 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.

Real-time Practicals

- NPM Installation by locally and Globally
- Create a Basic App with ReactJS and other Supported NPMs.

Module 4: A Real-Time Application by using ReactJS

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

Real-time Practicals

- Create a Small React Module
- > Use All the states in in the created Application.

Module 5: ReactJS 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.
- ReactJS Form validations.
- ➤ How to write Styles?
- > Animations overview

Real-time Practicals

- Create a React Form.
- Client-side form validation.
- > Applying form components.
- > Submit and Rest the form.

Module 6: ReactJS Component Life Cycles Overview

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

Real-time Practicals

- Applying Different Lifecylces in the Application.
- > When to choose Appropriate lifecycles.

Module 7: Routing in ReactJS 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.

Real-time Practicals

- > Create a Single Page Application.
- Applying Routing.
- > Dynamically render the components based on the url

Module 8: Event Handling in JSX

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

Real-time Practicals

- Communicate Data between components.
- > Applying all lists of events.

Module 9: How to write Styles in ReactJS?

- CSS and inline styles in ReactJS overview.
- > Introduction to styled components

Real-time Practicals

- Styling the application using styled component
- ➤ How to use Animations in the Application.

Module 10: 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.

Module 11: Flux overview

- ➤ What is Flux Architecture?
- > What are the Flux Components available?
- Stores.
- Dispatchers.
- View Controllers.
- Actions.
- Views.
- ➤ How Flux works?
- > Flux and React works together.

Module 12: Redux Overview

- > Introduction to One Store.
- Provider Component
- > Actions.
- Reducers.
- sagas
- Dispatchers
- View Controllers
- Selectors

Real-time Practical's

Redux application Development with Real-time Project

Module 13: Unit Testing Overview

- What are the necessary Tools required for Unit Testing?
- > React Unit Testing overview
- > Introduction to JEST.
- ➤ How to Test React Component?
- ➤ How to Test React Router?