

# ReactJS Training

Total Duration: 50 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?
- [Debugging tools](#)
- 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](#)
- [State 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](#)

#### Internationalization

- [React i18n](#)
- [Multiple language support](#)

#### UX/UI Design

- [Theming](#)
- [Component libraries](#)
- [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.
  - Views.
- How Flux works?
- Flux and React works together.

## Redux Overview

- Redux
- Redux-thunk
- Redux-saga
- [redux-persist or react-native-async-storage](#)

## 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](#)
- [Encryption libraries](#)

## Testing

- [Unit testing using JEST, RTL](#)

## Performance Optimization

## React Native

- [What is React Native?](#)
- [React Native Architecture](#)
- [React Native Fabric Rendering System](#)

- Cross Platform Architecture
- View Flattering
- Threading Model

## UI

- Core components
- Native Components
- User Input
- Scroll View
- List View
- Style Sheet
- Platform Module
- Platform Specific file extensions
- Navigation
- Animations

## Development

- Setting Up environment
- Integration with existing Apps
- Building for Android/Linux
- Testing in Devices
- Using Libraries
- Headless JS
- Debugging
- Stack trace
- Testing
- Upgrading New versions
- New Architecture
- Migration

## Linux Target Building

- Valence Native/Proton Native
- UI
- Window
- Packaging
- Debugging
- Native Components