Learn ReactJS

React is a view library to develop single page applications in Javascript. It is the most popular library backed by Facebook. With React library, you can develop dynamic frontend applications which come with great features like component architecture, data binding, declarative views, universal apps.

ReactJS Training Objectives

All students will gain knowledge:

- Understand how Single Page React application is different than traditional web development frameworks
- Code using new ES6 language features
- Develop an application from scratch using React 16
- Understand the benefits of unidirectional data flow
- Understand and use React, React Router, Redux, Redux Saga and other popular libraries
- Creating redux middleware with Redux saga
- Use styled-components to create presentational components (CSS in JS)
- Taking the advantage of React and Redux dev tools for better debugging
- Taking the advantage of immutable.js library to follow the immutable state principle
- Unit test React components, redux using Jest, Enzyme and sinon
- Implementing server-side rendering for SEO benefits and to reduce initial load times
- Understand webpack bundler and its killer features like code splitting, lazy loading, tree shaking, hot module replacement
- Create, build, and deploy react applications to cloud
- React ecosystem and sources for good third-party libraries

After Completing Our Course, You Will Know

- The fundamentals of React.js. How it is different from frameworks
- The various components of React.js, JSX and the Flux architecture
- To build complex user interfaces having a unidirectional data flow, with React.js
- React.js best practices and how to use them to build state-of-the-art apps

Essentials:

- HTML, CSS, JavaScript OOP basics

ReactJS Course Syllabus :

ES6 Overview

■ Lesson 1. History of Javascript
i Lesson 3. A word on bable
Lesson 4. Block scope, let & const
Lesson 5. Template literals
■ Lesson 6. Arrow functions
■ Lesson 7. Spread and Rest operators
■ Lesson 8. Destructuring
El Lesson 9. Classes - Inheritance, Static properties and methods
■ Lesson 10. Inheritance
E Lesson 11. Static properties and methods
■ Lesson 12. Promises
i Lesson 13. Modules

Introduction to React

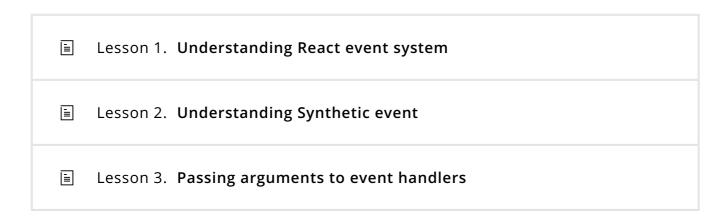
	Lesson 1. '	What is React?
	Lesson 2. \	Why React?
	Lesson 3.	React version history
	Lesson 4.	React 16 vs React 15
	Lesson 5.]	Just React - Hello World
	Lesson 6.	Using create-react-app
	Lesson 7. <i>i</i>	Anatomy of react project
	Lesson 8.	Running the app
= 1	Lesson 9.	Debugging first react app

Templating using JSX

E Lesson 1. Working with React.createElement
■ Lesson 2. Expressions
E Lesson 3. Using logical operators
E Lesson 4. Specifying attributes

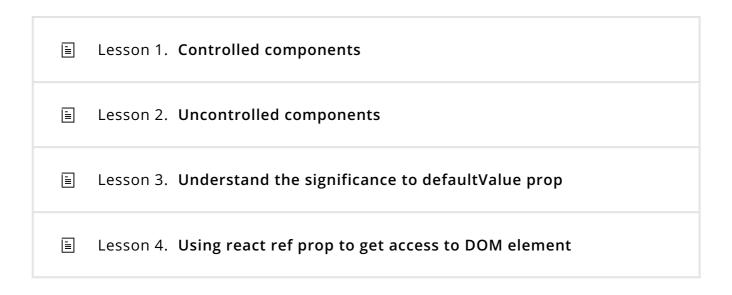
Ē	Lesson 5. Specifying children
It's all	l about components
Ē	Lesson 1. Significance of component architecture
	Lesson 2. Types of components - Functional, Class based, Pure
Ē	Lesson 3. Component Composition
Work	ing with state and props
	Lesson 1. What is state and its significance
	Lesson 2. Read state and set state
	Lesson 3. Passing data to component using props
Ē	Lesson 4. Validating props using propTypes
Ē	Lesson 5. Supplying default values to props using defaultProps
Rende	ering lists
	Lesson 1. Using React key prop
	Lesson 2. Using map function to iterate on arrays to generate elements

Event handling in React

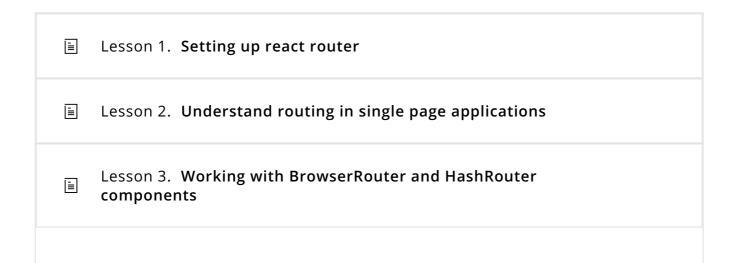


Understanding Component Lifecycle

Working with Forms



Routing with React Router



E Lesson 4. Configuring route with Route component
E Lesson 5. Using Switch component to define routing rules
E Lesson 6. Making routes dynamic using route params
E Lesson 7. Working with nested routes
Ell Lesson 8. Navigating to pages using Link and NavLink component
E Lesson 9. Redirect routes using RedirectComponent
Lesson 10. Using Prompt component to get consent of user for navigation
E Lesson 11. Path less Route to handle failed matches

Just Redux

■ Lesson 1. What is redux
■ Lesson 2. Why redux
■ Lesson 3. Redux principles
■ Lesson 4. Install and setup redux
Lesson 5. Creating actions, reducer and store

Immutable.js for immutable data structures

■ Lesson 1. What is Immutable.js?
E Lesson 2. Immutable collections
■ Lesson 3. Lists
■ Lesson 4. Maps
■ Lesson 5. Sets
React Redux

E Lesson 1. What is React Redux
■ Lesson 2. Why React Redux
E Lesson 3. Install and setup
E Lesson 4. Presentational vs Container components
E Lesson 5. Understand high order component
Lesson 6. Understanding mapStateToProps and mapDispatchtToProps usage

Redux saga(Redux middleware)

Lesson 1. Why redux middleware

E Lesson 2. Available redux middleware choices
■ Lesson 3. What is redux saga
E Lesson 4. Install and setup redux saga
E Lesson 5. Working with Saga helpers
■ Lesson 6. Sagas vs promises

Project

Lesson 1. Performing CRUD Operations in ReactJS