

React JS - Syllabus

Module 1: Introduction to React

- What is React?
- Why React?
- React version history
- React 16 vs React 15
- Just React â€“ Hello World
- Using create-react-app
- Anatomy of react project
- Running the app
- Debugging first react app

Module 2: Templating using JSX

- Working with React. create Element
- Expressions
- Using logical operators
- Specifying attributes
- Specifying children
- Fragments

Module 3: About Components

- Significance of component architecture
- Types of components
- Functional
- Class based
- Pure
- Component Composition

Module 4: Working with state and props

- What is state and its significance
- Read state and set state
- Passing data to component using props
- Validating props using prop Types
- Supplying default values to props using default Props

Module 5: Rendering lists

- Using react key prop
- Using map function to iterate on arrays to generate elements

Module 6: Event handling in React

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Understanding React event system
Understanding Synthetic event
Passing arguments to event handlers

Module 7: Understanding component lifecycle and \hat{A} handling errors

Understand the lifecycle methods
Handle errors using error boundaries

Module 8: Working with forms

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

Module 9: Context

What is context
When to use context
Create Context
Context Provider
Context Consumer
Reading context in class

Module 10: Code-Splitting

What is code splitting
Why do you need code splitting
React lazy
Suspense
Route-based code splitting

Module 11: hooks

What are hooks
Why do you need hooks
Different types of hooks
Using state and effect hooks
Rules of hooks

Module 12: Routing with react router

Setting up react router
Understand routing in single page applications

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- Working with Browser Router and Hash Router components
- Configuring route with Route component
- Using Switch component to define routing rules
- Making routes dynamic using route params
- Working with nested routes
- Navigating to pages using Link and NavLink component
- Redirect routes using Redirect Component
- Using Prompt component to get consent of user for navigation
- Path less Route to handle failed matches

Module 13: Just Redux

- What is redux
- Why redux
- Redux principles
- Install and setup redux
- Creating actions, reducer and store

Module 14: Immutable.js

- What is Immutable.js?
- Immutable collections
- Lists
- Maps
- Sets

Module 15: React Redux

- What is React Redux
- Why React Redux
- Install and setup
- Presentational vs Container components
- Understand high order component
- Understanding map State To Props and map Dispatch To Props usage

Module 16: Redux middleware

- Why redux middleware
- Available redux middleware choices
- What is redux saga
- Install and setup redux saga
- Working with Saga helpers
- Sagas vs promises

Module 17: Unit Testing

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Understand the significance of unit testing

Understand unit testing jargon and tools

Unit testing react components with Jest

Unit testing react components with enzyme

Module 18: Web pack Primer

What is web pack

Why web pack

Install and setup web pack

Working with web pack configuration file

Working with loaders

Working with plugins

Setting up Hot Module Replacement

Module 19: Isomorphic React

What is server-side rendering (SSR)?

Why SSR

Working with render To String and render To Static Markup methods

For more details about this course, Click on this link: [React JS Training](#)