

# TechnoMaster

## React JS

Duration:60 Hrs (Changeable) | Fees: Individual / Batch

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Syllabus Contd..

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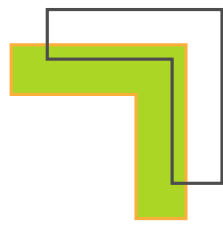
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## Syllabus



### **Module 1: Introduction to React**

- \* What is React?
- \* Why React?
- \* React version history
- \* React 16 vs React 15
- \* Just React â€œ 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



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## Syllabus

- \* 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**

- \* Understanding React event system
- \* Understanding Synthetic event
- \* Passing arguments to event handlers

### **Module 7: Understanding component lifecycle and error handling**

- \* Understand the lifecycle methods
- \* Handle errors using error boundaries

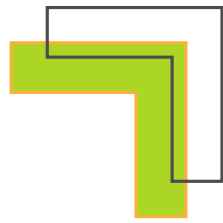
### **Module 8: Working with forms**

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



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## Syllabus



### **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**

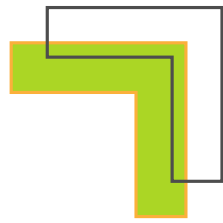
- \* What is Immutable.js?
- \* Immutable collections
- \* Lists
- \* Maps
- \* Sets

### **Module 15: React Redux**



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- \* 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**

- \* Understand the significance of unit testing
- \* Understand unit testing jargon and tools
- \* Unit testing react components with Jest
- \* Unit testing react components with enzyme

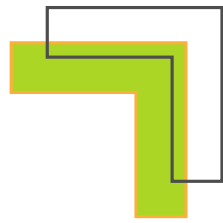
### **Module 18: Web pack Primer**

- \* What is web pack
- \* Why web pack
- \* Install and setup web pack



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- \* 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