

React with Redux

Duration : 33 Hrs

Pre-Requirement :

- Html
- Javascript
- Understanding the DOM

React with Redux

Topics	Details
Introduction	<ul style="list-style-type: none">• What is React? What problem does it solve?• Why React• Introduction to Component based programming• Virtual DOM• JSX• Elements vs Components• Components and Props• Class Components and Functional Components• Understanding single page application
ES6 Concepts used in React	<ul style="list-style-type: none">• ES6 concepts like Import, Export, Arrow Functions etc
React State, Features, Lifecycle, Syntax and Events of a Component	<ul style="list-style-type: none">• State Management• Lifecycle Methods• Event Handling• Conditional Rendering• Form Handling• NPM and Package.json• Create react app• Understanding Folder Structure• States Revisited• React Context• Project using Create React App
Understanding of Component	<ul style="list-style-type: none">• Understanding component basics• Understanding JSX• Creating functional component• Working with component and re-using

	<ul style="list-style-type: none"> • Working with Props • Working with States
Lists and Conditionals	<ul style="list-style-type: none"> • Rendering Content Conditionally • Outputting Lists • Lists & State • Updating State Immutably
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React Components and Elements and React internals	<ul style="list-style-type: none"> • Splitting an App Into Components • Understanding the Component Lifecycle • How React Updates the App & Component Tree • Debugging react apps
Web calls(HTTP)	<ul style="list-style-type: none"> • Get data and render to screen • Post request • Delete request
Adding Routing	<ul style="list-style-type: none"> • Setting up routing and routes • Passing data via query params
Forms and Form Validation	<ul style="list-style-type: none"> • Creating Forms and controls • Adding validations
Redux	<ul style="list-style-type: none"> • Redux Basics <ul style="list-style-type: none"> ○ Actions ○ Reducers ○ Store • Implementation of Redux and Vanilla JavaScript • Implementation of Redux by Creating React App • Understanding and Complexity of managing states • Understanding Redux flow • Setting up reducers, actions and store
Routing and Authentication	<ul style="list-style-type: none"> • Completing the Todo List Project With React and Redux <ul style="list-style-type: none"> ○ Setting up Routes and Authentication ○ Passing data via query params
How webpack works	<ul style="list-style-type: none"> • Project and npm setup

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| | <ul style="list-style-type: none">• Creating basic folder and file structure• Setting up basic Webpack configuration |
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