

REACT JS COURSE (Total: 40hrs)

1.Introduction to React

2.Why should we choose React

3.Understanding the Base Features and Syntax in React

1. Module Introduction
2. Build Work Flow
3. Working with create react app
4. Understanding the folder structure
5. Understanding Component Basics
6. Understanding JSX
7. JSX Restrictions
8. Creating a functional component
9. Working with components and Re-using them
10. Outputting Dynamic Content
11. Working with Props
12. Understanding the children props
13. Understanding & Using State
14. Props & State
15. Handling Events with Methods
16. Manipulating the State
17. Function Components Naming
18. Using the useState() Hook for State Manipulation
19. Stateless vs Stateful Components
20. Passing Method References Between Components
21. Adding Two Way Binding
22. Adding Styling with Stylesheets
23. Working with Inline Styles
24. Assignment 1

4.Working with List & Conditions

1. Module Introduction
2. Rendering Content Conditionally
3. Handling Dynamic Content
4. Outputting Lists
5. Outputting Lists
6. Lists & State
7. Updating State Immutably
8. Lists & Keys
9. Assignment2

5.Styling React Components & Elements

1. Module Introduction
2. Outlining the Problem Set
3. Setting Styles Dynamically

4. Setting Class Names Dynamically
5. Adding and Using Radium
6. Using Radium for Media Queries
7. Introducing Styled Components
8. More on Styled Components
9. Styled Components & Dynamic Styles
10. Working with CSS Modules
11. CSS Modules & Media Queries

6. React Life Cycles and Internal aspects

1. Module Introduction
2. A Better Project Structure
3. Splitting an App Into Components
4. Comparing Stateless and Stateful Components
5. Class-based vs Functional Components
6. class Component Lifecycle Overview
7. Component Creation Lifecycle in Action
8. Component Update Lifecycle (for props Changes)
9. Component Update Lifecycle (for state Changes)
10. Using useEffect() in Functional Components
11. Controlling the useEffect() Behavior
12. Cleaning up with Lifecycle Hooks & useEffect()
13. Cleanup Work with useEffect() - Example
14. Using shouldComponentUpdate for Optimization
15. Optimizing Functional Components with React.memo()
16. When should you optimize?
17. PureComponent instead of shouldComponentUpdate
18. How React Updates the DOM
19. Rendering Adjacent JSX Elements
20. Using React.Fragment
21. Another Form of HOCs
22. Passing Unknown Props
23. Setting State Correctly
24. Using PropTypes
25. Using Refs
26. Refs with React Hooks
27. Understanding Prop Chain Problems
28. Using the Context API
29. contextType & useContext()

A Real App: Build a Project using React we have learnt so far.

7. Redux

1. Module Introduction
2. Understanding State
3. The Complexity of Managing State
4. Understanding the Redux Flow

5. Setting Up Reducer and Store
6. Dispatching Actions
7. Adding Subscriptions
8. Connecting React to Redux
9. Connecting the Store to React
10. Dispatching Actions from within the Component
11. Passing and Retrieving Data with Action
12. Switch-Case in the Reducer
13. Updating State Immutably
14. Updating Arrays Immutably
15. Immutable Update Patterns
16. Outsourcing Action Types
17. Combining Multiple Reducers
18. Understanding State Types
19. Combining Local UI State and Redux

Adding Redux to our Real App we have built using react