React With Redux

**Section 1: Introduction to React**

• Introduction to React16.7/16.8

• Basic Setup: React

• Use of NPM to manage application Dependencies

• Understand single page applications and multipage applications

• React in JSX and React DOM

• Understanding Virtual DOM

• ES6 Introduction

• React Core Concepts

• Render Elements

• Functional Components

• Component lifecycle

• State in react

• Working with props

• Handling Events

• Binding Data

• Lists and Keys

• Forms

• Styling and Style Sheets

**Section2 : Routing in React**

• Routing

• React Router

• ReactDOMServer

• Handling the request

• Generating initial state

• Rendering

• Page transactions

• Understanding params and query parmas

• link and Menu bar

• Json server

• Fetch

• Consume Rest API

• Creating Detail Page

**Section3: React State Management using Redux**

• Installation of Redux and React Redux

• Connecting Local UI State and Redux

• Redux Architecture

• Understand Legacy of Redux

• Integrate Redux with React

• Create and Deploy Action

• Redux Reducer

• Execute Reducers

• Understand difference between State and Store

• Integrate Store Using Redux

• Action creators and Async Code

• Handling Asynchronous code

• Restructuring Actions

• Passing the Store

• Axios

• Debug applications

**Section4 : APIs and Hooks**

• React Hooks

• Rules of Hooks

• Enabling Hooks

• Functional components with hooks

• Context API

**Section5 : Fetch Data Using GraphQL**

• GraphQL Introduction

• GraphQL API

• Apollo for GraphQL

• Consume API With Apollo

• Combine GraphQL with Redux

• Mutation with GraphQL

**Section6 : Testing and Deployment**

• Define Jest

• Setup Testing environment

• Add Snapshot testing

• Integrate Test Reducers

• Create Test Components

• Deploy App on Nginx

• Push Application on Git

• Create Docker for React App

**Section 7: Introduction to React Native**

• What is React Native

• Use of JSX elements

• React installation and setup

• Running the app on Android Simulator and Android Device

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