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React Web Development (3 days)

Course overview

React is a popular client-side development library from Facebook. React makes it easy to create reusable components and render them in a web page or in a native mobile application.

This course focuses on React web development. We take a detailed look at how to create components using pure React and using JSX, and then take a detailed look at how to implement statefulness and asynchrony in large-scale applications.

What you'll learn

- React architectural concepts
- Creating components via classes
- Creating components via functional components
- Using JSX effectively
- Property types and statefulness
- Lifecycle mehods, effect hooks, and memoization
- React Router
- Redux and React
- Redux Saga
- Modular development and bundling using Webpack

Prerequisites

- Familiarity with HTML and JavaScript programming

Course details

- Introduction to React: What is React; Essential ES6 language features for React; Using the Babel transpiler
- Getting Started With React: Creating a simple React application; Creating multiple React elements; A data-driven approach; Creating elements via ReactDOMFactories
- Components: Overview of React components; Creating components via ES6 classes; Creating functional components
- JSX: Overview of JSX; A closer look at JSX Syntax; Complete example of JSX
- Creating Modular React Applications: The need for modularity; Example application using Webpack
- Properties and State: Specifying types for properties; Working with classes; Working with functional components; State management

- Component Techniques: Component lifecycle methods; Effect hooks; Memoization; REST client example
- React Router: Overview of Single Page Applications; React and SPAs; Defining a router table; Creating links; Route parameters
- Redux Store: What is Redux; Creating a Redux store; Creating and dispatching actions; Defining reducers; Subscribing and unsubscribing to state changes; Implementing action creators; Composing functions
- Redux and React: Application structure; Identifying actions and reducers; Accessing state via context; Defining container classes; Simplifying containers via React Redux
- Redux Saga: Overview of Redux Saga; ES6 generators; Doing asynchronous work via Redux Saga; Saga effects (take, put, call, fork, cancel, etc.)