Sela.

REACTJSexp

REACTJS

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REACTJS

REACTJSexp - Version: 1

5 days Course

Description:

React is a JavaScript library for creating user interfaces. React is intended to help developers build large applications with data that changes over time. In this course we will learn how to use ReactJS and the Redux library to create next gen web applications. The course covers all the practical aspects of developing with React and managing data and server communication with Redux. After the course, students will be able to join existing React project or start developing new projects and features.

Intended audience:

JavaScript and Frontend developers

Prerequisites:

Basic knowledge of JavaScript and Frontend development

Objectives:

Topics:

Introduction

• React Overview

- React Development Environment
- Setting up a React Project
- Create-React-App
- High level architecture

Components Basics

- Components Overview
- Class Components
- Functional Components
- Bootstraping
- Understanding JSX
- Embedding Expressions in JSX
- Component Styling

Components Props, State & Lifecycle

- Understanding Props
- Understanding State
- Using State Correctly
- Handling events
- Component Lifecycle

Conditionals And Lists

- Conditionals
- Lists
- List Keys
- Lists & State

Reaching out to the Web (HTTP/Fetch)

- Async Javascript
- Promises
- Async/Await
- Fetch API
- Fetch in React
- Fetch error handling
- Using environments variables

Components Deep Dive

- Component's Children
- Lifecycle in depth
- Pure Components
- Fragments
- Higher Order Components
- Refs and DOM
- Context API

Hooks

- Introduction to hooks
- Basic hooks
- Rules of hooks
- Custom hooks
- Additional hooks

Routing

- Routing
- Setting up React-Router
- Routes
- Links
- Parametrized Routes
- Route Props
- Navigating Programmatically
- Switch

Forms

- Forms in React
- Uncontrolled components
- Controlled components
- Controlled Input
- Controlled Checkboxes & Radio buttons
- Controlled Select

Introduction to Redux

- What is redux
- Motivation
- Redux Three Principles
- Immutable state updates
- Splitting Reducers
- Redux devtools

React Redux

- React with Redux

• Implementing Actions
• Implementing Reducers
• Connecting the Store
• Presentational and Container Components
• Implementing Container Components
• Connect
• Async Actions (Redux thunk)

Testing Jest

• Testing overview
• JEST
• React components testing