Developing Applications using ReactJS

Learn via: **Classroom / Virtual Classroom / Online**

Duration: **3 Day**

https://bilginc.com/en/training/developing-applications-using-reactjs-713-training/

Overview

This three-day course is designed for developers who are already familiar with JavaScript, including ES6, and wish to learn how to create User Interfaces using the ReactJS library. It will discuss how ReactJS can be used to create reusable, interactive UI components, single page applications using React Router and an introduction to Flux and Redux. The aim of the course is that delegates develop their skills, knowledge and understanding so that they can confidently use ReactJS to create User Interfaces.

Prerequisites

A solid understanding of JavaScript and preferably attendance at the following QA courses "Programming with JavaScript" and "Next Generation JavaScript: ECMAScript 2015" (or equivalent programming experience).

Please note: Before attending this class delegates must have a Microsoft account (signing up one is free).

What You Will Learn

- create components for use in a ReactJS application using JSX
- pass data around an application built in ReactJS
- how components can be used as part of single page applications

Outline

Introduction to ReactJS

- What is ReactJS
- What does ReactJS do
- ReactJS, the DOM and the VirtualDOM

ReactJS Projects

- Project Fundamentals
- The react and react-dom packages
- Babel and Webpack
- Other project files

Components and JSX

- Components
- JSX and how to modify a project to use JSX
- Chrome React Developer tools

Using props and state

- props – description, use, typing and validation
- state – description, use, setting and changing
- Passing state through props
- Functional components
- Lifting up state

Component Lifecycles

- Lifecycle Methods: Mouting, Updating and Unmounting
- ReactJS and the DOM

- ReactDOM methods

Forms, Events and Refs

- Controlled components
- How are Events controlled
- What are Refs
- Uncontrolled components
- Forms as child components

Working with Datasets

- Collecting data from forms
- Data sources
- Arrays/Iterators and Keys
- Sub-Components

Composition vs Inheritance

- Composition and the use of containment and specialisation
- Inheritance use in ReactJS

Single Page Applications

- Single Page Applications and React Router
- Defining and Lining to Routes
- Displaying Route Content
- Params and Nesting

Thinking in React

- Facebook's 'Thinking in React' Philosophy

Working with other Libraries

OBJECTIVES

- Using Flux and Redux with React
- ReactJS as the V part for Angular and other frameworks