

Building Web Applications with React

INTRODUCTION

Welcome!

- ◆ Meet your instructor
 - Name
 - Background
 - Contact info
- ◆ Let's get started!



Course Objectives

In this course, you will learn how to:

- ◆ Create a React application
- ◆ Develop React components using JSX
- ◆ Build composite components
- ◆ Utilize props and state
- ◆ Work with controlled form inputs
- ◆ Unit test React components
- ◆ Implement the Flux design pattern using Redux
- ◆ Create and use Redux stores and actions
- ◆ Access store state via container components
- ◆ Display data from RESTful services in React components
- ◆ Post data to a RESTful service
- ◆ Control SPA routing
- ◆ Create wrapper components and custom hooks

Course Contents

Chapter 0	Introduction
Chapter 1	Getting Started with React
Chapter 2	State and Events
Chapter 3	Unit Testing with Jest and React Testing Library
Chapter 4	React and REST
Chapter 5	Routing
Chapter 6	Course Summary

Class Schedule

◆ Start of class _____

◆ Morning breaks approximately on the hour

◆ Lunch _____

◆ Afternoon breaks approximately on the hour

◆ Class end _____

Target Audience

- ◆ Web developers with the following hands-on experience:
 - HTML
 - CSS
 - JavaScript
- ◆ To get the most out of this course, you need to feel comfortable with JavaScript and HTML

Course Software

- ◆ This course will use the following software:
 - React
 - create-react-app
 - Redux
 - Node.js/npm
 - ExpressJS
 - ◆ And many supporting node packages
- ◆ The instructions refer to the following optional free tools:
 - Visual Studio Code
 - Google Chrome
 - ◆ With the React Extension
- ◆ But any code/text editor and browser can be used
 - In combination with a command/terminal window

Exercise 0.1: Inspecting the Complete Solution



- ◆ In this exercise, you will explore a completed version of the application you will build this week and ensure you have everything necessary to proceed with the remaining exercises
- ◆ Please refer to the Exercise Manual

Student Introductions

Please introduce yourself stating:

- ◆ Name
- ◆ Position or role
- ◆ How many years of experience you have with JavaScript and React
- ◆ Expectations or a question you'd like answered during this class

