

Course Objectives

You are about to build a web application and you have decided on using ReactJS along with the Redux framework. This is 3 day course that will walk you through the initial setup, creating components and connecting to a REST API.

Course Content

ReactJS along with Redux have become one of the most powerful and popular library and framework for UI development. This course will allow the student to understand the nuances of the library ReactJS and the setup of the Redux framework along with all the debugging tools that come along with this library/framework combination.

Student Background

Student must have working knowledge of JavaScript, HTML, and CSS (if help in JavaScript is needed, we recommend our course in “Accelerated JavaScript”

https://docs.google.com/document/d/1u1cOnvJ9_F7IS1iC9FGqY0yTjM9cLAXOwmT6pgNrtco/e/dit).

Computer Requirements

For the purposes of this class we'd recommend you use a reasonably new laptop running something like Mac OS X (10.6+), Microsoft Windows 7+, or any recent version of Linux. Also the latest installation of a Chrome browser.

Suggested Reading

Here are some resources for ReactJS and Redux:

- ReactJS intro tutorial <https://facebook.github.io/react/tutorial/tutorial.html>
- A cartoon intro to Redux
<https://code-cartoons.com/a-cartoon-intro-to-redux-3afb775501a6>

Class Schedule

This class will run for three eight-hour days. Each day will be broken up with a break in the morning, afternoon, and at lunch time. Work periods will consist of a lecture on a topic followed by exercises to reinforce it.

Day 1: Intro to ReactJS

Introduction, building components, passing data, properties, interactivity, and debug tools.

Day 2: Further dive into ReactJS & intro to Redux

Functional programming and ReactJS, Immutability, communicating between components.
Intro to Redux, how does Redux work, managing state, debugging state, action creators, the store, and reducers.

Day 3: How it all works together

Interaction among all components, making smart components, creating a form validation with React/Redux, available toolsets.