

A React Workshop

From Zero To App

React Workshop

- ▶ You will need the following tools
 - ▶ Git
 - ▶ Node JS
 - ▶ Webpack (npm install -g webpack)
- ▶ Create an API key for <https://openweathermap.org>
- ▶ Create a free account at <https://auth0.com>
- ▶ Clone the repo for reference purposes
 - ▶ <https://github.com/joellord/react-zeroapp-workshop>
- ▶ Slides: <http://ezurl.to/react-workshop-slides>



About Me

- Author @ Udemy, Egghead
- Co-organizer @ NomadJS
- Developer Advocate @ Red Hat OpenShift



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Agenda

- ▶ 8:30-10:00 - Intro, Using React with Vanilla JS, Webpack
- ▶ 10:00-10:30 - Break
- ▶ 10:30-12:00 - JSX, Components and React Router
- ▶ 12:00-13:00 - Lunch
- ▶ 13:00-14:30 - External Data Sources and Authentication
- ▶ 14:30-15:00 - Break
- ▶ 15:00-16:30 - Form manipulation



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DEAR DEMO GODS, PLEASE
LET THIS WORK



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```
SurveyAdmin.js
1 import React from 'react'
2 import { bindActionCreators } from 'redux'
3 import { connect } from 'react-redux'
4 import * as SurveyAdminActionCreators from '../actions/dispatchers'
5
6 import CounterContainer from './CounterContainer'
7 import EntityContainer from './EntityContainer'
8
9 @connect(state => ({
10   calculations: state.calculations,
11   entities: state.entities
12 })))
13
14 class SurveyAdmin extends React.Component {
15   render() {
16     const { entities } = this.props
17     return (
18       <div>
19         <CounterContainer />
20         { entities.map( entity => {
21           return <EntityContainer {...entity} key={ entity.id } />
22         }) }
23       </div>
24     )
25   }
26 }
27
28 export default SurveyAdmin
```

because require() is fucking garbage syntax

hope you like churn and package managers

haha fuck parens

lol left-hand assignment

splat!

ruby!

classes just like a real programming language

HTML THE FUCK?

XML KINDA?

so strong such wow

props diarrhea

defaults are nice I guess Ill just use that I have no idea why ...but it works!



What is React

- ▶ Functional Programming
- ▶ Renders content
- ▶ Uses Virtual DOM to calculate the changes



What is React

- ▶ `React.createElement()`
- ▶ `ReactDOM.render()`



Part 1

Learning React

Before the break

- ▶ `npm install -g create-react-app`
 - ▶ you might need to `sudo` this command
- ▶ `create-react-app prairiecode`
 - ▶ `^^^` run this in the root folder of the repo you cloned earlier
 - ▶ this will install all the required tooling to build a React application, might take a while



Part 2

Skeleton App And Router

React Router

- ▶ Shows or hides different sections of your SPA based on the URL
- ▶ `npm install --save react-router-dom`



Part 3

Authentication and Data Store

Authentication

- ▶ Missing stuff? Copy from /part7/end into your /src folder
- ▶ Login to <https://auth0.com>
- ▶ Create “Auth0 Application”
- ▶ `npm install --save auth0-js`
- ▶ `npm install --save es6-event-emitter`



Part 4

External Data Source and Form Manipulation

THANK YOU !

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<https://ezurl.to/react-workshop-slides>

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