

Building SharePoint Apps as Single Page Apps with AngularJS

Course Introduction and Overview

Andrew Connell

<http://www.andrewconnell.com>

[@andrewconnell](#)



pluralsight 
hardcore developer training

Course Overview

- **Why did I build this course?**
- **What this course is...**
 - Demo heavy... who needs slides?
 - Get productive with 3rd party JavaScript libraries
 - Incorporating lots of libraries
- **What this course is NOT...**
- **Loads of resources & pointers**

Who is This Course For?

- **SharePoint developers**
- **Office 365 & SharePoint 2013 on-premises deployments**
- **Prerequisites**
 - Some JavaScript experience
 - SharePoint 2013 experience
- **Goals**
- **What do you need?**
 - SharePoint 2013 developer environment
 - Visual Studio

What is a SharePoint-Hosted App?

SharePoint-Hosted
App

Cloud-Hosted App
Cloud App Model (CAM)

Hybrid Apps

What is a Single Page App?

- **Single page, not a collection of pages**
- **Why build a single page app?**
 - Reduced round tripping
 - Works great in low bandwidth & offline
 - Highly interactive

Characteristics of a Single Page App

Routing &
Navigation

Deep Linking

History

Templated
Views with
Data Binding

SPA Presentation Frameworks



AngularJS

www.angularjs.org



Durandal

www.durandaljs.com

- **What to look for in a SPA presentation framework**
 - Routing & navigation
 - Views & data binding
 - Dependency injection & testability

Benefits of SharePoint-Hosted Apps as Single Page Apps

- **Development experience**
- **No external deployment steps**
- **No extra costs & concerns**
 - Who is going to pay for this?
- **SPA's yield a richer user experience**
- **SPA's facilitate building apps in modular approach**
- **Leverage SharePoint for services and data storage**
- **Protecting app business logic**

What Are We Going to Build?

Course Module Overview

- **Course Introduction & Overview**
- **Setting Up the SharePoint App for a Single Page App**
- **Building SharePoint Hosted Apps as Single Page Apps**
- **Incorporating Live Data Using SharePoint's REST API**
- **Incorporating Live Data Using Breeze**
- **Incorporating SharePoint Services into the SPA**

Other Pluralsight Courses:

SharePoint Apps, REST API & CSOM

- **SharePoint 2013 Developer Ramp-Up (Parts 2 & 5) – Andrew Connell**
 - <http://aconn.me/PSSP2013DevRampUp2>
 - <http://aconn.me/PSSP2013DevRampUp5>
- **Understanding SharePoint 2013: Part 6 – App Basics – Sahil Malik**
 - <http://aconn.me/1fb6gyN>
- **SharePoint 2013 Development CSOM & REST API – Rob Windsor**
 - <http://aconn.me/N7XIBU>
- **Understanding SharePoint 2013: Part 5 – REST & CSOM – Sahil Malik**
 - <http://aconn.me/Mxtd30>
- **Developing SharePoint 2013 Solutions with JavaScript – David Mann**
 - <http://aconn.me/1nLZlpx>

Other Pluralsight Courses:

Single Page Apps

- **Single Page Apps with HTML5, Web API, Knockout & jQuery – John Papa**
 - <http://aconn.me/1kTU5II>
- **Single Page Apps JumpStart – John Papa**
 - <http://aconn.me/1bjJa89>
- **Building Apps with Angular and Breeze – Part 1 & 2 – John Papa**
 - <http://aconn.me/MxtliZ>
 - <http://aconn.me/1fb6pSQ>

Other Pluralsight Courses: AngularJS & Breeze

■ AngularJS

- AngularJS Fundamentals – Jim Cooper & Joe Eames
 - <http://aconn.me/1e5BeCb>
- AngularJS Best Practices – Joe Eames
 - <http://aconn.me/1fb6plK>

■ Breeze

- Building Data Centric Single Page Apps with Breeze – Brian Noyes
 - <http://aconn.me/1ja0P2b>