

Designing and Building Component-based AngularJS Applications

COURSE INTRODUCTION



Miguel A. Castro

PRINCIPAL CONSULTANT

@miguelcastro67 www.melvicorp.com



Overview



The coolest AngularJS course you'll see

Not everyone can move to Angular

Components are #1 difference

AngularJS has had them since 1.5

Your bridge between

AngularJS (< v2) & Angular (v2+)

Best way to develop AngularJS sites

Ease the pain of learning Angular

Platform agnostic



The Lingo

AngularJS

- Currently 1.6
- Most popular
- Still receiving updates
- Straight-forward install

Angular

- Currently 2... or 3...,
oh wait, I think it's 4
- Typescript recommended
- Setup a little more involved

Just keeping it real 😊

Programming should be fun!



Course Agenda

Shifting to a Component-based Design

- What are components?
- Difference from directives
- Why a component-based design?
- Breaking them down
- Design comparisons

The Development Environment

- The front-end
 - AngularJS & other libraries
 - Live-Server
- The back-end
 - REST API
 - Azure

Writing a Component

- Your first component
- Comparison to conventional design



Course Agenda

Layout out Our Component-based Application

- The app case-study
- Designing a component tree
- Planning a URL structure
- Coding out the main components

Introducing Routing

- The Angular UI Router
- Comparison to:
 - ngRouter
 - Component Router
- Setting up routing

Building out the App Structure

- More routing states
- Handling URL parameters
- Component navigation



Course Agenda

The Author-list & Course-list Components

- Filling in components
- Accessing a REST API
- Component bindings

Adding Services

- AngularJS services
- Moving API access
- Injecting service into components

Securing the Application

- My AngularJS-Security component library
- Registration & Login
- The security service
- Checking for authentication in components



Course Agenda

The Course Component & Its Internal Structure

- A more complex inner component structure
- Inter-component communication

The Author & Sidebar Components

- Finishing the author section
- Adding an author-sidebar to link from course to author section

Replacing Home with Secure Recent Courses

- A more credible “home” view
- Authenticated vs anonymous modes



Course Agenda

For Microsoft Developers

What About ASP.NET?

- Setting up the ASP.NET application
- Migrating the original app into Visual Studio
- SPA silos

Integrating ASP.NET Routing

- ASP.NET vs AngularJS routing
- Making the two play nice
- Course wrap-up



Summary



Each module begins with code starter project that represents the completion of the last

REST services already hosted on Azure

Get ready for another wild coding adventure with me!

Other courses

- Building End-to-End Multi-Client Service Oriented Applications
(Knockout and AngularJS editions)
- Developing Extensible Software
- WCF End-to-End
- WCF Power Topics

