

## Lesson 1

The goal of Lesson 1 is to get a basic application going with Angular, just as if we were creating a website with Ruby on Rails.

### Unit 1: Going over the basics

- Going over how to write HTML, style it with CSS and manipulate it with Javascript
- We will create a basic application where we type into a text field and it displays in a HTML box

### Unit 2: The basics in Angular

- Show what MVVM is and how it is different from what we're used to
- Explain what Angular's objective is, and how it keeps code clean
- From Unit 1, show how Angular can be bootstrapped into a frontend app

### Unit 3: Views & Controllers

- Show what the “{{}}” handlebars do in HTML & how to access objects
- Creating a controller and explain what the “\$scope” is
- Demonstrate how controllers are linked with views
- This is the “MV” of MVVM

### Unit 4: Directives

- The “VM” of MVVM
- Explain how to use “ng-model” and how it can reflect to a handlebar display

### Lab 1: Rewriting the basics into Angular

- From the basics, we want to create a page where the box changes text from a text field

### Unit 5: Built-in Angular Directives

- User event bindings
  - ng-click, ng-change
- Display & hide
  - ng-hide, ng-if
  - ng-class
- Iteration
  - ng-repeat

### Unit 6: Filters

- Filters are Angular functions that can help modify content before display
  - “ | number:2”

## Lab 2: Books

- Given a preset array of books, show and display it on a page
- Books that are not read should be highlighted
- Ability to toggle books from being read to not read

## Lesson 2

We should have a good rhythm with MVVM and the appropriate Angular functions. We're understanding how we can interact a page with Angular. We now want to teach the various components of Angular that help make a usable and functional application.

## Unit 7: Services - REST

- Proper usage of the "\$http" service and obtaining data from a backend
- How to build routes and pass query parameters and body data

## Lab 3

## Unit 8

### Routing

- Assumptions
  - You've created a controller and a template before
- Objectives
  - Going through what the hashbang means and what it does in Angular
  - Creating another controller and a necessary route that leads to it
  - Showing and displaying that linking to another Angular controller does not perform another web request

### Services

- Objectives
  - Go through what services add to controllers
  - List the different available services that Angular provides
  - How to access route variables with \$routeParams
  - Making an AJAX request with \$http

## Lesson 3

After Lesson 2, students have the ability to create a full application but should now face the challenge of being DRY. Lesson 3 enables them to utilize some of Angular's core to help them resolve those issues

### Custom Directives

- Assumptions

- Know what a directive is and how they are used
- Objectives
  - Know the key parts of a directive
  - Examples on when to use directives
  - Building a sample directive like a dropdown
  - They should understand that building directives are typically used to display elements

#### Services

- Explain services & singleton patterns in Javascript
- Services are ways to keep controllers lean and DRY
- We can share code across multiple controllers including requested data

#### **Lesson 4**