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## CodeAcademy AngularJS

1 message

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Awesome! You built an AngularJS app. How does it work?

1. In `app.js`, we created a new *module* named `myApp`. A *module* contains the different components of an AngularJS app.

```
1 var app = angular.module('myApp', []);
2
3
```

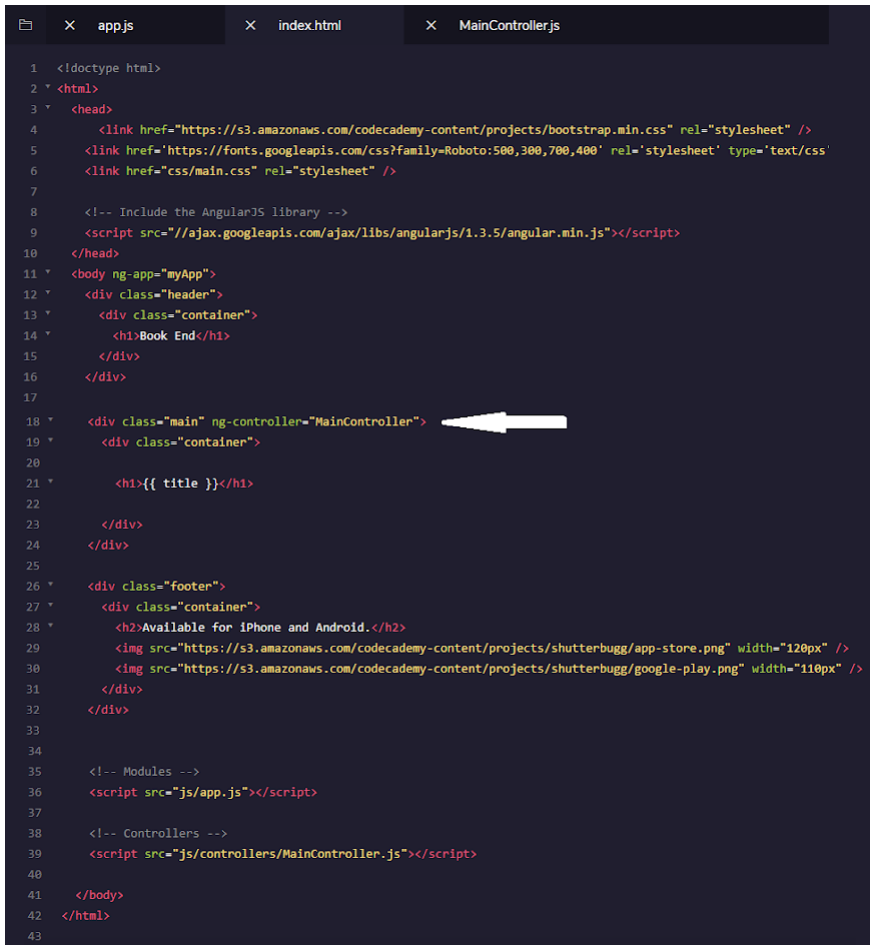
2. Then, in `index.html` we added `<body ng-app='myApp'>`. The `ng-app` is called a *directive*. It tells AngularJS that the `myApp` module will live within the `<body>` element, termed the application's *scope*. In other words, we used the `ng-app` directive to define the application scope.

```
1 <!doctype html>
2 <html>
3 <head>
4 <link href='https://s3.amazonaws.com/codecademy-content/projects/bootstrap.min.css' rel='stylesheet' />
5 <link href='https://fonts.googleapis.com/css?family=Roboto:500,300,700,400' rel='stylesheet' type='text/css' />
6 <link href='css/main.css' rel='stylesheet' />
7
8 <!-- Include the AngularJS library -->
9 <script src='//ajax.googleapis.com/ajax/libs/angularjs/1.3.5/angular.min.js'></script>
10 </head>
11 <body ng-app='myApp'>
12 <div class='header'>
13 <div class='container'>
14 <h1>Book End</h1>
15 </div>
16 </div>
17
18 <div class='main' ng-controller='MainController'>
19 <div class='container'>
20
21 <h1>{{ title }}</h1>
22
23 </div>
24 </div>
25
26 <div class='footer'>
27 <div class='container'>
28 <h2>Available for iPhone and Android.</h2>
29 <img src='https://s3.amazonaws.com/codecademy-content/projects/shutterbug/app-store.png' width='120px' />
30 <img src='https://s3.amazonaws.com/codecademy-content/projects/shutterbug/google-play.png' width='110px' />
31 </div>
32 </div>
33
34 <!-- Modules -->
35 <script src='js/app.js'></script>
36
37 <!-- Controllers -->
38 <script src='js/controllers/MainController.js'></script>
39
40
41 </body>
42 </html>
43
```

3. In `MainController.js` we created a new *controller* named `MainController`. A *controller* manages the app's data. Here we use the property `title` to store a string, and attach it to `$scope`.

```
1 app.controller('MainController', ['$scope', function($scope) { $scope.title = 'Top Sellers in Books';}]);
2
3
```

4. Then, in `index.html`, we added `<div class="main" ng-controller="MainController">`. Like `ng-app`, `ng-controller` is a *directive* that defines the controller scope. This means that properties attached to `$scope` in `MainController` become available to use within `<div class="main">`.



The screenshot shows a code editor with three tabs: `app.js`, `index.html`, and `MainController.js`. The `index.html` tab is active, displaying the following HTML code:

```
1 <!doctype html>
2 <html>
3 <head>
4   <link href="https://s3.amazonaws.com/codecademy-content/projects/bootstrap.min.css" rel="stylesheet" />
5   <link href='https://fonts.googleapis.com/css?family=Roboto:500,300,700,400' rel='stylesheet' type='text/css' />
6   <link href="css/main.css" rel="stylesheet" />
7
8   <!-- Include the AngularJS library -->
9   <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.3.5/angular.min.js"></script>
10 </head>
11 <body ng-app="myApp">
12   <div class="header">
13     <div class="container">
14       <h1>Book End</h1>
15     </div>
16   </div>
17
18   <div class="main" ng-controller="MainController">
19     <div class="container">
20
21       <h1>{{ title }}</h1>
22
23     </div>
24   </div>
25
26   <div class="footer">
27     <div class="container">
28       <h2>Available for iPhone and Android.</h2>
29       
30       
31     </div>
32   </div>
33
34   <!-- Modules -->
35   <script src="js/app.js"></script>
36
37   <!-- Controllers -->
38   <script src="js/controllers/MainController.js"></script>
39
40 </body>
41 </html>
42
```

A white arrow points to the `ng-controller="MainController"` attribute in line 18.

5. Inside `<div class="main">` we accessed `$scope.title` using `{{ title }}`. This is called an *expression*. Expressions are used to display values on the page.

```
app.js index.html MainController.js

1 <!doctype html>
2 <html>
3 <head>
4   <link href="https://s3.amazonaws.com/codecademy-content/projects/bootstrap.min.css" rel="stylesheet" />
5   <link href="https://fonts.googleapis.com/css?family=Roboto:500,300,700,400" rel="stylesheet" type="text/css" />
6   <link href="css/main.css" rel="stylesheet" />
7
8   <!-- Include the AngularJS library -->
9   <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.3.5/angular.min.js"></script>
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26   <div class="footer">
27     <div class="container">
28       <h2>Available for iPhone and Android.</h2>
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30       
31     </div>
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33
34
35   <!-- Modules -->
36   <script src="js/app.js"></script>
37
38   <!-- Controllers -->
39   <script src="js/controllers/MainController.js"></script>
40
41 </body>
42 </html>
43
```

6. The value of `title` showed up when we viewed the app in the browser.

https://localhost/

## Book End

# Top Sellers in Books

Available for iPhone and Android.

