Angular Line of Business Applications: Hands-On Labs

# PREP: Starting Files

Repository: **https://github.com/DeborahK/AngularU2015**

Folder: **HandsOnLabs**

# LAB 1: Basics

Starting Files: **MovieHunter Take1 – Basics**

#### Key Tasks:

1. index.html
   1. Add the script tags for:
      1. angular.js
      2. app.js
      3. movieListCtrl.js
2. movieListView.html
   1. Add a column to display the movie director.
3. app.js
   1. Create the “movieHunter” module.
4. movieListCtrl.js
   1. Create the controller using the “controller as” syntax.
   2. Use contents of the **dataClipboard.txt** file to hard-code movie data
5. Run the application
   1. The list of movies should appear.
   2. The Hide/Show poster button should work.
   3. The filter feature should work.

#### Extra Tasks (as time permits):

1. Try out the F12 developer tools.
2. Change the sort order for the display of the movies.

# LAB 1 Code

*movieListCtrl.html*

<table ng-if="vm.movies.length">

<thead>

<tr>

<td>

<button type="button"

ng-click="vm.toggleImage()">

**{{**vm.showImage ? "Hide" : "Show"**}}** Poster

</button>

</td>

<td>Title</td>

**<td>Director</td>**

<td>Release Date</td>

<td>Rating</td>

</tr>

</thead>

<tbody>

<tr ng-repeat="movie in vm.movies | filter : {title:listFilter} | orderBy : 'title'">

<td>

<img ng-show="vm.showImage" style="width:50px;margin:2px"

ng-src="**{{**movie.imageurl**}}**" title="**{{**movie.title**}}**">

</td>

<td>

**{{** movie.title**}}**

</td>

**<td>{{ movie.director }}</td>**

<td>**{{** movie.releaseDate | date **}}**</td>

<td>**{{** movie.mpaa | uppercase**}}**</td>

</tr>

</tbody>

</table>

*app.js*

(function () {

"use strict";

var app = angular.module("movieHunter", []);

*}());*

#### movieListCtrl.js

(function () {

"use strict";

angular

.module("movieHunter")

.controller("MovieListCtrl",

[MovieListCtrl]);

function MovieListCtrl() {

var vm = this;

vm.movies = [

{

title: 'The Fellowship of the Ring',

director: 'Jackson',

releaseDate: '2001-12-19',

imageurl: 'http://www.coverwhiz.com/content/The-Lord-Of-The-Rings-The-Fellowship-Of-The-Ring\_small.jpg',

mpaa: 'pg-13'

},

{

title: 'The Two Towers',

director: 'Jackson',

releaseDate: '2002-12-18',

imageurl: 'http://www.coverwhiz.com/content/The-Lord-Of-The-Rings-The-Two-Towers\_small.jpg',

mpaa: 'pg-13'

},

{

title: 'The Point',

director: 'Wolf',

releaseDate: '1971-02-02',

imageurl: '',

mpaa: 'nr'

}

];

vm.title = "Search by Movie Title";

vm.showImage = false;

vm.toggleImage = function () {

vm.showImage = !vm.showImage;

};

}

#### }());

# LAB 2: Twitter Bootstrap - Option 1

Starting Files: **MovieHunter Take2 – Bootstrap**

#### Key Tasks:

1. index.html
   1. Add the link tag for **Content/bootstrap.css**
2. movieListView.html
   1. Examine the **class** attributes added to this file.
3. Run the application
   1. It should look much better!
   2. The features should still all work.

#### Extra Tasks (as time permits):

1. Check out the <http://getbootstrap.com/> site for additional styles.
   1. CSS tab
   2. Components tab
2. Try out some of the other styles.

LAB 2: Twitter Bootstrap - Option 2

Starting Files: **From End of Lab 1**

*Key Tasks:*

1. Download and install Bootstrap.
   1. If using Visual Studio, you can use NuGet Package Manager.
2. index.html
   1. Add the link tag for **Content/bootstrap.css**
3. movieListView.html
   1. Add the **class** attributes to this file as shown in the **styleClipboard.txt** file.
4. Run the application
   1. It should look much better!
   2. The features should still all work.

*Extra Tasks (as time permits):*

1. Check out the <http://getbootstrap.com/> site for additional styles.
2. CSS tab
3. Components tab
4. Try out some of the other styles.

# LAB 2 Code

#### movieListView.html

<div **class="panel panel-primary"** ng-controller="MovieListCtrl as vm">

<div **class="panel-heading"**>

<h2 **class="title"**>**{{**vm.title**}}**</h2>

</div>

<div **class="panel-body"**>

<!-- Filter the Title -->

<div **class="row"**>

<div **class="col-md-2"**>Filter by:</div>

<div **class="col-md-4"**><input type="text" ng-model="listFilter" /></div>

</div>

<div **class="row"** ng-show="listFilter">

<h3>Movies filtered by: **{{**listFilter**}}**</h3>

</div>

<div **class="table-responsive"**>

<table **class="table"** ng-if="vm.movies.length">

<thead>

<tr>

<td>

<button type="button"

**class="btn btn-info"**

ng-click="vm.toggleImage()">

**{{**vm.showImage ? "Hide" : "Show"**}}** Poster

</button>

</td>

<td>Title</td>

<td>Director</td>

<td>Release Date</td>

<td>Rating</td>

</tr>

</thead>

<tbody>

<tr ng-repeat="movie in vm.movies | filter : {title:listFilter}   
 | orderBy : 'title'">

<td>

<img ng-show="vm.showImage" style="width:50px;margin:2px"

ng-src="**{{**movie.imageurl**}}**" title="**{{**movie.title**}}**">

</td>

<td>

**{{** movie.title**}}**

</td>

<td>**{{** movie.director **}}**</td>

<td>**{{** movie.releaseDate | date **}}**</td>

<td>**{{** movie.mpaa | uppercase**}}**</td>

</tr>

</tbody>

</table>

</div>

</div>

</div>

LAB 3: Routing

Starting Files: **MovieHunter Take3 – Routing**

*Key Tasks:*

1. index.html
   1. Add the script tag for **Scripts/angular-route.js**
   2. Add the script tag for new detail controller: **app/movies/movieDetailCtrl.js**
   3. Notice the <nav></nav> Bootstrap styles added to display the menu.
   4. Replace the ng-include directive with the ng-view directive.
2. app.js
   1. Add ngRoute as a dependency when defining the movieHunter module.
   2. Examine the routing code.
3. movieDetailView.html
   1. Review the code in this new file.
   2. Notice the use of the Bootstrap grid columns.
   3. Add the ng-href to activate the **#searchByTitle** route.
4. movieDetailCtrl.js
   1. Review the code in this new file.
5. movieListView.html
   1. Example the anchor tag used to navigate to the #showDetail route.
6. Run the application
   1. The main page should appear with a menu and welcome icon.
   2. The Search by Title menu option should display the list of movies.
   3. Clicking on a movie should display the movie detail.

*Extra Tasks (as time permits):*

1. Add another route to the list of routes for an “about” view (with no controller).
2. Rough out an HTML fragment for this view (about.html).
3. Add the route to **app.js**
4. Add a menu option for the route to **index.html**.
5. Run the application and ensure that your “about” page appears when selected.

# LAB 3 Code

#### index.html

<div class="container">

<div ng-view></div>

</div>

*app.js*

(function () {

"use strict";

var app = angular.module("movieHunter", [**"ngRoute"**]);

app.config(["$routeProvider",

function ($routeProvider) {

$routeProvider

.when("/", {

templateUrl : "app/welcomeView.html"

})

.when("/searchByTitle", {

templateUrl : "app/movies/movieListView.html",

controller : "MovieListCtrl as vm"

})

.when("/showDetail/:movieId", {

templateUrl : "app/movies/movieDetailView.html",

controller : "MovieDetailCtrl as vm"

})

.otherwise("/");

}]);

}());

*movieDetailView.html*

<div class="panel-footer">

<a class="btn btn-default"

ng-href="#searchByTitle"

style="width:80px">

<i class="glyphicon glyphicon-chevron-left"></i>

Back

</a>

</div>