Exercise (Instructions): Angular UI-Router for Single Page Applications

Objectives and Outcomes

In this exercise, you will use the Angular UI-router to design a SPA that makes use of multiple views and nested views in a page. At the end of this exercise, you will be able to:

- Use the Angular UI-Router to design a SPA with multiple and nested views
- Reogranize the application and complete the SPA in a modular manner

Installing Angular UI-Router

 Use Bower to install angular-ui-router by typing the following at the command prompt:

```
bower install angular-ui-router -S
```

Configuring UI Router

- Open app.js and configure it to use the UI Router. Replace the config function that we had for the ngRoute with the new config for the UI router.
- First, inject the UI router into the module:

```
angular.module('confusionApp', ['ui.router'])
```

Next introduce the config for the UI router:

```
.config(function($stateProvider, $urlRouterProvider) {
       $stateProvider
                    // route for the home page
            .state('app', {
                url:'/',
                views: {
                    'header': {
                        templateUrl : 'views/header.html'
                    },
                    'content': {
                        template : '<h1>To be Completed</h1>',
                        controller : 'IndexController'
                    },
                    'footer': {
                        templateUrl : 'views/footer.html'
                    }
                }
            })
                    // route for the aboutus page
            .state('app.aboutus', {
                url: 'aboutus',
                views: {
                    'content@': {
                        template: '<h1>To be Completed</h1>'
                   }
                }
            })
                    // route for the contactus page
            .state('app.contactus', {
                url: 'contactus',
                views: {
                    'content@': {
                        templateUrl : 'views/contactus.html',
                        controller : 'ContactController'
                     }
                }
            })
            // route for the menu page
            .state('app.menu', {
                url: 'menu',
                views: {
                    'content@': {
                        templateUrl : 'views/menu.html',
                        controller : 'MenuController'
                    }
                }
            })
            // route for the dishdetail page
```

```
.state('app.dishdetails', {
    url: 'menu/:id',
    views: {
        'content@': {
            templateUrl: 'views/dishdetail.html',
            controller: 'DishDetailController'
        }
    }
});
surlRouterProvider.otherwise('/');
})
```

Updating the DishDetailController

• Update the DishDetailController to use \$stateParams as follows:

Creating View Templates

- In the *app* folder, create a sub-folder named *views*, and move all the templates into this folder.
- In the views folder, create two new files named *header.html* and *footer.html*.
- From the *index.html* page, cut out the *<nav>* and the *<header>* part of the page and move it to *header.html*.
- Also, from index.html page, move all the code in the <footer> tag over to footer.html file.
- In *index.html*, replace the *ngView* with uiView as follows:

```
<div ui-view="header"></div>
<div ui-view="content"></div>
<div ui-view="footer"></div>
```

• Also, update the <scripts> tag to use angular-ui-router.min.js instead of angular-route.js as follows:

```
<script src="../bower_components/angular-ui-router/release/angu
lar-ui-router.min.js"></script>
```

• Open *header.html* and update the hrefs using ui-srefs as follows:

```
<a class="navbar-brand" ui-sref="app"><img src="imag</pre>
es/logo.png" height=30 width=41></a>
           </div>
           <div id="navbar" class="navbar-collapse collapse">
               <a ui-sref="app">
                       <span class="glyphicon glyphicon-home"</pre>
                        aria-hidden="true"></span> Home</a>
                   <a ui-sref="app.aboutus">
                       <span class="glyphicon glyphicon-info-sign"</pre>
                        aria-hidden="true"></span> About</a>
                   <a ui-sref="app.menu">
                        <span class="glyphicon glyphicon-list-alt"</pre>
                        aria-hidden="true"></span>
                        Menu</a>
                    <a ui-sref="app.contactus">
                    <i class="fa fa-envelope-o"></i> Contact</a></</pre>
li>
               </div>
```

• Next, update the hrefs in the footer to use ui-srefs as follows:

- Make sure you moved *menu.html*, *contactus.html* and *dishdetail.html* to the *views* folder.
- Then, edit *menu.html* to update the href there to use the ui-sref as follows:

• Finally, edit *dishdetail.html* file to include a button so that we can click it to return the menu as follows:

• Save all the files and have a look at the completed SPA

Conclusions

In this exercise, you used Angular UI-router to design a SPA with multiple and nested views. You saw the powerful features provided by the UI-router.

