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:

```
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>',
            controller : 'AboutController'
    }
})
        // 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:

```
.controller('DishDetailController', ['$scope', '$stateParams', 'menuFactory', fun
ction($scope, $stateParams, menuFactory) {
    var dish= menuFactory.getDish(parseInt($stateParams.id,10));
    $scope.dish = dish;
}])
```

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="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/angular-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="images/logo.png" height=30</pre>
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"></a>
                       <span class="glyphicon glyphicon-list-alt"</pre>
                       aria-hidden="true"></span>
                        Menu</a>
                   <a ui-sref="app.contactus"></a>
                   <i class="fa fa-envelope-o"></i> Contact</a>
               </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:

```
<a ui-sref="app.dishdetails({id: dish._id})">
<img class="media-object img-thumbnail"

ng-src={{dish.image}} alt="Uthappizza">
</a>
```

• 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.