Exercise (Instructions): Angular Scope

Objectives and Outcomes

In this exercise, you will explore Angular scope and the use of scope as a glue between the view and controller. You will also learn about the *ngShow* directive. At the end of this exercise, you will be able to:

- Understand the use of Angular Scope.
- Use scope to connect the view and the controller.
- Make use of the ngShow directive.

Modifying the Gulp File

- Since Angular involves writing a lot of JavaScript, once we introduce the \$scope, we need to make sure that when the uglify task runs, it does not end up mangling the \$scope. Otherwise the JavaScript code will not work. Fortunately, we have an gulp plugin named gulp-ng-annotate, which ensures the mangling does not cause any problems. We now need to add this plugin and update the gulpfile.js to include this plugin.
- First install the gulp-ng-annotate plugin:

```
npm install gulp-ng-annotate --save-dev
```

Then require this in gulpfile.js.

```
var ngannotate = require('gulp-ng-annotate');
```

Next, add the ngannotate() to the usemin task for the JavaScript part, by updating the usemin task as follows:

```
gulp.task('usemin',['jshint'], function () {
    return gulp.src('./app/menu.html')
        .pipe(usemin({
        css:[minifycss(),rev()],
        js: [ngannotate(),uglify(),rev()]
        }))
        .pipe(gulp.dest('dist/'));
});
```

Using Angular \$Scope

- Open the app.js file. Update the Angular controller's name to MenuController, changing the small letter "m" to
 capital letter "M", to conform to the accepted Angular convention of naming the controllers starting with a Capital
 letter.
- Next, update the controller to use the scope as follows:

- Next, you need to update all references to "this." with "\$scope." in the JavaScript code in the controller.
- Remove the following statement from the controller code:

```
this.dishes = dishes;
```

• Save the *app.js* file, and then open *menu.html* file. In the HTML code, we no longer need to use the *menuCtrl*alias for the *MenuController*. The JavaScript variables and functions in the *MenuController* code can be accessed within HTML by directly using their names without the *menuCtrl*. prefix. So, remove the *menuCtrl*. prefix from all the HTML code. Also remove the *menuCtrl* alias from the ng-controller directive. Also, update the *menuController* to *MenuController* in the directive.

Using the ngShow Directive

• In the *menu.html* page, right before the for the tabs, introduce a button using the following code:

Update the containing the dish description as follows:

```
{{dish.description}}
```

• Save the *menu.html* page, and then switch to *app.js* file to introduce the JavaScript code. Add the following code to the *MenuController*:

```
$scope.showDetails = false;
...
```

```
$scope.toggleDetails = function() {
    $scope.showDetails = !$scope.showDetails;
};
```

• Save app.js and then check the behavior of the web page.

Conclusions

In this exercise, you learnt more about the use of Angular \$Scope. You also learnt about the *ngShow* directive.