

Exercise (Instructions): Client-Server Communication using \$resource

Objectives and Outcomes

In this exercise, you will make use of the Angular `ngResource` module and Angular `$resource` to access the data from a server that supports REST API. At the end of this exercise, you will be able to:

- Install and use Angular *ngResource* module
- Use Angular `$resource` to access the server that exports a REST API.

Installing ngResource

- First, you will install the Angular *ngResource* module in your `conFusion` project by typing the following at the command prompt when you are in the `conFusion` folder:

```
bower install angular-resource -S
```

- Remember to add `angular-resource.min.js` to the `index.html` file by including the following in the `scripts` section of the page, right after including `angular-ui-router`:

```
<script src="../../bower_components/angular-resource/angular-resource.min.js"></script>
```

- Inject the *ngResource* module into the Angular module by updating the `angular.module()` in *app.js* as follows:

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

Updating Services

- Next, open *services.js* and update the code in *menuFactory* as follows to use Angular `$resource`:

```
.service('menuFactory', ['$resource', 'baseUrl', function($resource, baseUrl) {
```

- Then update the *getDishes()* function as follows:

```
        this.getDishes = function(){
                                return $resource(baseUrl+"dishes/:id",null, { 'update':{method: 'PUT' } });
        };
```

- Delete the *getDish(index)* function as we no longer need it. Save *services.js*.

Updating Controllers

- Open *controllers.js* and update the code in *MenuController* as follows:

```
$scope.showMenu = true;
$scope.message = "Loading ...";
$scope.dishes = menuFactory.getDishes().query();
```

- Similarly update the *DishDetailController* as follows:

```
$scope.showDish = true;
$scope.message="Loading ...";
$scope.dish = menuFactory.getDishes().get({id:parseInt($stateParams.id,10)});
```

- Finally, update the code in *IndexController* as follows:

```
$scope.showDish = true;
$scope.message="Loading ...";
$scope.dish = menuFactory.getDishes().get({id:0});
```

- Save the changes and have a look at the web application in the browser.

Conclusions

In this exercise you used the Angular *ngResource* module and Angular *\$resource* to access a RESTful server.