Workshop 6 – AngularJS Forms

Topics:

1. Services
   a. Factory recipe
   b. Service recipe
2. Forms

Demo:

1. Add a new route to your project:

```
.when('/dropdown', {
        templateUrl: 'templates/dropdown.html',
        controller: 'DropdownController'
    })
```

2. Create the template:

```
<div class="container">
    <div class="jumbotron">
        <h1>{{title}}</h1>

        <p>

        <div class="panel panel-default">
            <div class="panel-heading">
                <h3 class="panel-title">Simple array example</h3>
            </div>
            <div class="panel-body">
                <p>
                    <select ng-model="selectedCity" ng-options="city for
city in cities">
                    </select>
                </p>

                <p>
                    Selected Key: {{selectedCity}}
                </p>
            </div>
            <div class="panel-heading">
                <h3 class="panel-title">Array of objects example</h3>
            </div>
            <div class="panel-body">
                <p>
```

```
                          <select ng-model="selectedCar" ng-options="car.label
for car in cars">
                              </select>
                      </p>

                      <p>
                          Selected Car: {{selectedCar}}
                      </p>

                      <p>
                          Selected Car ID: {{selectedCar.id}}
                      </p>

                      <p>
                          Selected Car Label: {{selectedCar.label}}
                      </p>
                  </div>
              </div>
              </p>
          </div>
      </div>
```

3. Create the controller:

```
      hrApp.controller('DropdownController', ['$scope', function($scope) {
          $scope.title = "Dropdown example";
          $scope.selectedCity = "Rome";
          $scope.cities = [
              "Rome",
              "Paris",
              "Bucharest",
              "New York"
          ];
          $scope.cars = [
              {
                  id: 1,
                  label: "Dacia"
              },
              {
                  id: 2,
                  label: "Ford"
              },
              {
                  id: 3,
                  label: "Opel"
              },
              {
                  id: 4,
                  label: "Renault"
              }
          ];
          $scope.selectedCar = $scope.cars[1];
      }]);
```

4. Add the route to the 'Demo actions' menu;
5. Verify in browser that it works!!!
6. To create a service first create a new folder in your 'scripts' folder. Name it 'services'. Create inside this folder a file named: 'EmployeesService.js':

```javascript
hrApp.factory('employeeActionsService', function() {
    var employeeActionList = [
        {
            label: "List all employees",
            url: "#/employeeslist"
        },
        {
            label: "Add employee",
            url: "#/employeeadd"
        }
    ];
    return employeeActionList;
});
```

7. You have to inject the created service in the MenuController. Create a variable on the MenuController scope with the name 'employeeActionList' and initialize it with the value of the injected service;
8. Create with this service a new dropdown item in the menu(like 'Demo actions').
9. Create a new route, its template and its controller where you list all employees from 'http://demo.teamnet.ro:8282/datamodel/employees/findAll':

```javascript
.when('/employeeslist', {
        templateUrl: 'templates/employeeslist.html',
        controller: 'EmployeesListController'
    })
```

The table:

```html
<table class="table table-bordered">
    <tr>
        <th>ID</th>
        <th>First Name</th>
        <th>Last Name</th>
        <th>Salary</th>
        <th>Department Name</th>
    </tr>
    <tr ng-repeat="employee in employees">
        <td>
            {{employee.employeeId}}
        </td>
        <td>
            {{employee.firstName}}
```

```
                </td>
                <td>
                    {{employee.lastName}}
                </td>
                <td>
                    {{employee.salary}}
                </td>
                <td>
                    {{employee.departmentId.departmentName}}
                </td>
            </tr>
        </table>
```

10. Create a new route:
```
.when('/employeeadd', {
            templateUrl: 'templates/employeeadd.html',
            controller: 'EmployeeAddController'
        })
```

11. The template for this route:
```
<div class="container" ng-form="employeeAddForm">
    <div ng-form="employeeAddForm">
        <div class="row">
            <div class="col-lg-6">
                <div class="form-group">
                    <label for="firstName">First Name:</label>
                    <input type="text" id="firstName" class="form-control" ng-
model="employee.firstName"
                        placeholder="First Name" ng-required>
                </div>
            </div>
            <div class="col-lg-6">
                <div class="form-group">
                    <label for="lastName">Last Name:</label>
                    <input type="text" id="lastName" class="form-control" ng-
model="employee.lastName"
                        placeholder="Last Name" required>
                </div>
            </div>
        </div>
        <div class="row">
            <div class="col-lg-6">
                <div class="form-group">
                    <label for="departmentId">Department:</label>
                    <select id="departmentId" ng-model="employee.departmentId"
class="form-control" ng-required
                        ng-options="v as v.departmentName for v in
departments">
```

```html
                        </select>
                    </div>
                </div>
                <div class="col-lg-6">
                    <div class="form-group">
                        <label for="manager">Manager:</label>
                        <select id="manager" ng-model="employee.managerId"
class="form-control"
                                ng-options="v as v.firstName+' '+ v.lastName for v
in managers">
                        </select>
                    </div>
                </div>
            </div>

            <div class="row">
                <div class="col-lg-6">
                    <div class="form-group">
                        <label for="job">Job:</label>
                        <select id="job" ng-model="employee.jobId" class="form-
control" ng-required
                                ng-options="v as v.jobTitle+'
salary:['+v.minSalary+':'+v.maxSalary+']' for v in jobs">
                        </select>
                    </div>
                </div>
                <div class="col-lg-6">
                    <div class="form-group">
                        <label for="phoneNumber">Phone Number:</label>
                        <input type="text" id="phoneNumber" class="form-control"
ng-model="employee.phoneNumber"
                                placeholder="Phone Number" >
                    </div>
                </div>
            </div>
            <div class="row">
                <div class="col-md-5"></div>
                <div class="col-md-7">
                    <div class="container">
                        <button class="btn btn-default" ng-
click="reset()">RESET</button>
                        <button class="btn btn-default" ng-
disabled="employeeAddForm.$invalid" ng-click="create(employee)">SAVE</button>
                    </div>
                </div>
            </div>
        </div>

</div>
```

12. The Controller for this route:

```
hrApp.controller('EmployeeAddController', ['$scope', '$http', function
($scope, $http) {
    $scope.employee = {};

    $http({url: 'http://demo.teamnet.ro:8282/datamodel/departments/findAll',
method: 'GET'}).
        success(function (data) {
            $scope.departments = data;
        });
    $http({url: 'http://demo.teamnet.ro:8282/datamodel/employees/findAll',
method: 'GET'}).
        success(function (data) {
            $scope.managers = data;
        });

    $http({url: 'http://demo.teamnet.ro:8282/datamodel/jobs/findAll', method:
'GET'}).
        success(function (data) {
            $scope.jobs = data;
        });

    /**
     * Reset form
     */
    $scope.reset = function () {
        this.employee = {};
    };

    /**
     * Persist an employee
     * @param addEmployee - employee to be persisted
     */
    $scope.create = function (addEmployee) {
        console.log(addEmployee);
        $http({url: 'http://demo.teamnet.ro:8282/datamodel/employees/create',
method: 'PUT',data:addEmployee}).
            success(function (data) {
                $scope.employee = data;
            });
    }
}]);
```

Exercises:

1. Create a new route for to view a single employee. Use a <select> element with ng-options to select the employee you want to view.

URL: http://demo.teamnet.ro:8282/datamodel/employees/create/findOne/[employee_id];

2. Create a new column in the table named 'Actions'. Show a button in this column for each employee row. When we click this button make a http request to: http://demo.teamnet.ro:8282/datamodel/employees/findOne/[employee_id] and display the following informations above de table:ID, First Name, Last Name, Salary, Department Name, email, Phone Number, Department city; search the informations in the JSON you receive from the server;

3. For the employee add page add a message error if the http request made to save the employee has ended with an error.