

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':

```
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':


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

The table:

```
<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>
    </tr>
</table>
```

```

        </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">

```

```

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