# Study Point Exercise-6

October 14. 2016 Please observe the deadline for these exercises

You can earn a maximum of 7 points for these exercises as outlined below:

Problem-1: 1 point
Problem-2: 1 point
Problem-3: 1 point
Problem-4: 1 point
Problem-5: 1 point
Bonus: 2 Point

Show your Course Completion Badge to demonstrate that you have completed all five levels in this course: https://www.codeschool.com/courses/shaping-up-with-angular-js

If you hand in via mail you can get the additional "attendance point" if your score is **four** or above. As usual, if it's not, you should probably have attended the class to get help;-)

#### When to hand in

If you hand in via mail send a mail as described below no later than Saturday, October 15. 24.00

Note that you have 1-2 extra days, if needed for this CA (Thursday + Saturday)

If you attend the class, you can demo your solution up until 12.00

## How to hand in:

Either demonstrate what you did in the class, or send a mail to <a href="mailto:iwantstudypoints@gmail.com">iwantstudypoints@gmail.com</a> including the following:

A <u>CLEAR description</u> of how to verify and test the code handed in. This description must also explain which part of the exercises that are implemented.

Topic: Study Point Exercise-6

#### Content:

First line should be your full name,

Next line: the link to your Git-hub repository for ex-1 Next line: the link to your Git-hub repository for ex-2 Next line: the link to your Git-hub repository for ex-3 Next line: the link to your Git-hub repository for ex-4 Next line: the link to your Git-hub repository for ex-5

## Problem 1 Routing - passing in parameters via Route Urls

In this exercise you should create two routes and their corresponding templates as sketched below:



The first, and default template, should show a table with users, built with ng-repeat from a simple array in the Controller. The second column should be a link, which when pressed, should navigate to the second template with "details" for the person.

Complete the exercise following these steps:

- 1. Create a new project and add the necessary infrastructure to support angular and angular routing (don't forget angular-route: <a href="http://fall2015.azurewebsites.net/angularRouting/angularRouting.html#8">http://fall2015.azurewebsites.net/angularRouting/angularRouting.html#8</a>)
- 2. Add an index.html to provide the starting point for the exercise, including a div with an ng-view directive to hold the partials.
- 3. Create the app-module for the exercise
- 4. Create a controller to supply the necessary data.

Just use hardcoded values for this exercise, as sketched below:

```
var persons = [
    {id: 1,name: "Jens",age : 18}
    ,{id: 2,name: "Peter",age : 23}
    ,{id: 3,name: "Hanne",age : 23}
];
```

- 5. Create the routeprovider code to navigate the views.
- 6. Create the partials (templates) for the two routes
- 7. Provide the index.html file with a menu as sketched to the right:
  - a) When "All persons" is pressed, it should show the list as before.
  - b) When "New Person" is pressed it should show a Form that allows us to create new persons<sup>2</sup>.

All Persons	New Person							
Person List								
Name		Details						
Name Jens		Details 1						
Jens		1						
Jens		1						

<sup>&</sup>lt;sup>1</sup> You need to use the parameter notation in your "when's" (/:id) and you need to pass in \$routeParams to your controller

<sup>&</sup>lt;sup>2</sup> Remember ng-click allows you to bind, for example a buttons click event, to a function in your controller.

## **Problem 2 Controllers and Routing**

If you have not already done so, now is the time to complete the exercise from Angular-day2. This provided the full CRUD API to the simple list used for day-1's start exercise and should look similar to this: <a href="https://sem3exercises.herokuapp.com/carsCRUD/index.html">https://sem3exercises.herokuapp.com/carsCRUD/index.html</a>

In this exercise you should change this application, where everything was available in a single view, into something like this:

Cars Demo App with Routes										
,	All Cars	Add Car								
Number of cars: 4										
Filter	cars									
ID	Year	Registered	Make	Model	Description	Price	Action			
4	1996	Apr 15, 2002	Jeep	Grand Cherokee	Air, moon roof, loaded	\$4,799.00	edit   delete			
1	1997	Apr 15, 1999	Ford	E350	ac, abs, moon	\$3,000.00	edit   delete			
2	1999	Apr 12, 1996	Chevy	Venture	None	\$4,900.00	edit   delete			
3	2000	Jan 22, 200	Chevv	Venture		\$5,000.00	edit I delete			

- When "Add Car" or edit for a single car is pressed the View should change to a form where we can Add an new or Edit an existing car similar to the previous version of the exercise.
- You should have (at least) two controllers one for the "all Cars View" and one for The Add/Edit view.
- Use the factory below (we will come back to factories and services next week) to share data between the two Controllers.

You can inject you factory into the controller like this (leave out \$scope if you are using the Controller-as Syntax):

```
carApp.controller('ViewCarController', ['$scope', "CarFactory", function ($scope, CarFactory) {
```

## Problem 3 Connecting our Car-app to a REST-backend

In this exercise you must rewrite the controller from exercise three to fetch data from a backend via a REST API.

- Implement a simple REST API, using JAX-RS which can add, edit, delete and fetch cars.
- Use the factory given below as a substitute for the factory used in exercise 3.

```
carApp.factory('CarFactory', function () {
  var getCarss = function () {} //Return Cars from the server
  var deleteCar = function (id) {}; //Delete Car on the Server
  var addCar = function(newcar){}; //Add Car on the Server
  var editCar = function(car){}/Edit Car on the Server;
  return {
    getCars; getCars,
    deleteCar; deleteCar,
    addCar: addCar,
    editCar: editCar
  };
});
```

#### Hints:

#### A small script to give you a few cars in the database:

```
insert into car(id,model_year,registered,make,model,description,price) values(null,1996,'1999-4-11','Jeep','Grand Cherokee','Air, loaded',4799); insert into car(id,model_year,registered,make,model,description,price) values(null,2002,'2002-4-25','Ford','E350','ac, abs, moon',3000); insert into car(id,model_year,registered,make,model,description,price) values(null,2005,'2005-4-25','Chevy','Venture','none',7600);
```

### **Gson and dates:**

If you have date problems with Gson when de-serializing your car, you should create your gson instance as below:

## Problem 4, JQuery versus Angularjs

exam-preparation\_JqueryVsAngular.pdf

## **Problem 5 Angular, Controllers and Routing**

Exam-preparation\_Angular1.pdf