Instruções Exercício: Angular Factory e Service¹

Objetivos e resultados

Este exercício explora o conceito de *dependency injection* no AngularJS. Nele, você irá explorar como criar seus próprios serviços usando duas abordagens: *factory* e *service*. Ao finalizar essa atividade, você será capaz de:

- Usar *dependency injection* para habilitar o uso de serviços customizados em módulos e controladores do Angular
- Projetar serviços customizados usando as abordagens factory e service

Criando controllers.js e services.js

- Utilize o código disponibilizado pelo professor e na sub-pasta *scripts* (dentro da pasta *app*), crie dois arquivos *controllers.js* e *services.js*
- Abra o arquivo app. js e copie o código inteiro para o controllers. js
- No arquivo *app.js* remova todo o o código de controle, e deixe-o conforme abaixo:

```
'use strict';
angular.module('confusionApp', []);
```

• Abra o arquivo menu.html e inclua referências para os arquivos controllers.js e services.js

```
<script src="scripts/controllers.js"></script>
<script src="scripts/services.js"></script>
```

Adicione o código a seguir no arquivo services.js

¹ Exercício adaptado do curso de "Frameworks JavaScript para Front-End: AngularJS" fornecido pela Universidade de Ciência e Tecnologia de Hong Kong através da plataforma https://www.coursera.org/

Adicione o array Javascript abaixo, dentro do código do factory, definido acima

```
var dishes=[
                           name: 'Uthapizza',
                           image: 'images/uthapizza.png',
                           category: 'mains',
                            label:'Hot',
                           price: '4.99',
                           description: 'A unique combination of Indian Uthappam
(pancake) and Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes,
Vidalia onion, Guntur chillies and Buffalo Paneer.',
                            comments: [
                                    comment: "Imagine all the eatables, living in
conFusion!",
                                    author: "John Lemon",
                                    date: "2012-10-16T17:57:28.556094Z"
                                    rating:4,
                                    comment: "Sends anyone to heaven, I wish I could get
my mother-in-law to eat it!",
                                    author: "Paul McVites",
                                    date: "2014-09-05T17:57:28.556094Z"
                                    rating:3,
                                    comment: "Eat it, just eat it!",
                                    author: "Michael Jaikishan",
                                    date: "2015-02-13T17:57:28.556094Z"
                                    rating:4,
                                    comment: "Ultimate, Reaching for the stars!",
                                    author: "Ringo Starry",
                                    date: "2013-12-02T17:57:28.556094Z"
                                },
                                    rating:2,
                                    comment:"It's your birthday, we're gonna party!",
                                    author: "25 Cent",
                                    date: "2011-12-02T17:57:28.556094Z"
                           name: 'Zucchipakoda',
                            image: 'images/zucchipakoda.png',
                           category: 'appetizer',
                            label:'',
                           price: '1.99',
                           description: 'Deep fried Zucchini coated with mildly spiced
Chickpea flour batter accompanied with a sweet-tangy tamarind sauce',
                           comments: [
                                    rating:5,
                                    comment: "Imagine all the eatables, living in
conFusion!",
```

```
author: "John Lemon",
                                     date: "2012-10-16T17:57:28.556094Z"
                                     rating:4,
                                     comment: "Sends anyone to heaven, I wish I could get
my mother-in-law to eat it!",
                                     author: "Paul McVites",
                                     date: "2014-09-05T17:57:28.556094Z"
                                     rating:3,
                                     comment: "Eat it, just eat it!",
                                     author: "Michael Jaikishan",
                                     date: "2015-02-13T17:57:28.556094Z"
                                     rating:4,
                                     comment: "Ultimate, Reaching for the stars!",
                                     author: "Ringo Starry",
                                     date: "2013-12-02T17:57:28.556094Z"
                                     rating:2,
                                     comment:"It's your birthday, we're gonna party!",
                                     author: "25 Cent",
                                     date:"2011-12-02T17:57:28.556094Z"
                           name: 'Vadonut',
                            image: 'images/vadonut.png',
                            category: 'appetizer',
                            label:'New',
                           price: '1.99',
                           description: 'A quintessential ConFusion experience, is it a
vada or is it a donut?',
                            comments: [
                                     rating:5,
                                     comment: "Imagine all the eatables, living in
conFusion!",
                                     author: "John Lemon",
                                     date: "2012-10-16T17:57:28.556094Z"
                                     rating:4,
                                     comment: "Sends anyone to heaven, I wish I could get
my mother-in-law to eat it!",
                                     author: "Paul McVites",
                                     date:"2014-09-05T17:57:28.556094Z"
                                     rating:3,
                                     comment:"Eat it, just eat it!",
author:"Michael Jaikishan",
                                     date: "2015-02-13T17:57:28.556094Z"
                                     rating:4,
```

```
comment: "Ultimate, Reaching for the stars!",
                                    author:"Ringo Starry",
                                    date: "2013-12-02T17:57:28.556094Z"
                                },
                                    rating:2,
                                    comment:"It's your birthday, we're gonna party!",
                                    author:"25 Cent",
                                    date:"2011-12-02T17:57:28.556094Z"
                          name: 'ElaiCheese Cake',
                            image: 'images/elaicheesecake.png',
                           category: 'dessert',
                           label:'',
                           price: '2.99',
                           description: 'A delectable, semi-sweet New York Style Cheese
Cake, with Graham cracker crust and spiced with Indian cardamoms',
                           comments: [
                                    rating:5,
                                    comment: "Imagine all the eatables, living in
conFusion!",
                                    author: "John Lemon",
                                    date: "2012-10-16T17:57:28.556094Z"
                                    rating:4,
                                    comment: "Sends anyone to heaven, I wish I could get
my mother-in-law to eat it!",
                                    author: "Paul McVites",
                                    date: "2014-09-05T17:57:28.556094Z"
                                    rating:3,
                                    comment:"Eat it, just eat it!",
                                    author: "Michael Jaikishan",
                                    date: "2015-02-13T17:57:28.556094Z"
                                    rating:4,
                                    comment: "Ultimate, Reaching for the stars!",
                                    author: "Ringo Starry",
                                    date: "2013-12-02T17:57:28.556094Z"
                                    rating:2,
                                    comment:"It's your birthday, we're gonna party!",
                                    author: "25 Cent",
                                    date:"2011-12-02T17:57:28.556094Z"
```

• Adicione um objeto JavaScript vazio no factory

```
var menufac = {};
```

• Por fim, adicione o código abaixo no factory para definir a função e o retorno do objeto

• No controllers.js, remova os objetos dishes e coloque o seguinte código:

```
$scope.dishes= menuFactory.getDishes();
```

• Faça a injeção de dependência para injetar o serviço *menuFactory* no *MenuController*:

```
.controller('MenuController', ['$scope', 'menuFactory', function($scope, menuFactory)
{
```

• No DishDetailController substitua o objeto dish por uma chamada ao serviço meuFactory

```
$scope.dish= menuFactory.getDish(3);
```

Adicione a dependência ao meuFactory

```
.controller('DishDetailController', ['$scope', 'menuFactory', function($scope,
menuFactory) {
```

• Após salvar as mudanças, no dishdetail.html adicione o seguinte código para incluir os arquivos JS:

```
<script src="scripts/controllers.js"></script>
<script src="scripts/services.js"></script>
```

Usando Service ao invés de Factory

• Faça as alterações necessárias no arquivo *service.js* para que a chamada ao *factory* seja substituída por uma chamada ao *service*