

ANGULAR 2 FUNDAMENTALS

December 13, 2017

PART 7

INTRODUCING SERVICES

- ➤ App is running well but there are 2 problems
 - Creating images in the image-list component is not the right way if doing it.
 - ➤ What if we want to share the images with other components or views

SERVICES

- ➤ In angular
 - ➤ We may create a service and and use it to manage our list of images
 - ➤ The service can also be used across all components

LET'S CREATE A SERVICE

- > cd ../
- > mkdir services
- > cd services
- ➤ ng s image

//service is generated but not provided

REGISTER THE SERVICE

- Open app.module.ts
- ➤ In providers:[];
- ➤ add:
 - providers: [ImageService],
- ➤ don't forget to import ImageService at the top of file:

import {ImageService} from './services/image.service';

IMAGE.SERVICE.TS

import { Injectable } from '@angular/core'; import {Image} from '../models/image'; @Injectable() export class ImageService { images: Image[] = [new Image('1', 'First image', 'First image description', 'https://angularbooks.com /img/angular4/img1.jpg', 'https://angularbooks.com/img/angular4/img1-l.jpg'), new Image('2', 'Second image', 'Second image description', 'https://angularbooks.c om/img/angular4/img2.jpg', 'https://angularbooks.com/img/angular4/img2-1.jpg'), new Image('3', 'Third image', 'Third image description', 'https://angularbooks.com /img/angular4/img3.jpg', 'https://angularbooks.com/img/angular4/img3-1.jpg'), new Image('4', 'Fourth image', 'Fourth image description', 'https://angularbooks.c om/img/angular4/img4.jpg', 'https://angularbooks.com/img/angular4/img4-1.jpg'), new Image('5', 'Fifth image', 'Fifth image description', 'https://angularbooks.com /img/angular4/img5.jpg', 'https://angularbooks.com/img/angular4/img5-l.jpg'), new Image('6', 'Sixth image', 'Sixth image description', 'https://angularbooks.com /img/angular4/img6.jpg', 'https://angularbooks.com/img/angular4/img6-1.jpg'), new Image('7', 'Seventh image', 'Seventh image description', 'https://angularbooks .com/img/angular4/img7.jpg', 'https://angularbooks.com/img/angular4/img7-1.jpg'), new Image('8', 'Eighth image', 'Eighth image description', 'https://angularbooks.c om/img/angular4/img8.jpg', 'https://angularbooks.com/img/angular4/img8-1.jpg'),];

IMAGE.SERVICE.TS

```
constructor() { }

getImages() {
  return this.images;
 }
}
```

Adding the @injectable decorator at the top makes us use the service in other components

USING THE SERVICE

➤ Open image-list.component.ts find:

```
import { Component, OnInit } from '@angular/core';
import { Image } from '../../models/image';
```

➤ Add below:

```
import {ImageService} from '../../services/image.service';
```

➤ Inject image service in the constructor:

```
constructor(private imageService: ImageService) { }
```

Create empty array of images:

```
images: Image[] = [];
```

USING SERVICE

➤ Call service and get all images

```
ngOnInit() {
  this.images = this.imageService.getImages();
}
```

IMAGE-LIST.COMPONENT.TS

import { Component, OnInit } from '@angular/core'; import { Image } from '../../models/image'; import {ImageService} from '../../services/image.service'; @Component({ selector: 'ng-image-list', templateUrl: './image-list.component.html', styles: [] export class ImageListComponent implements OnInit { images: Image[] = []; constructor(private imageService: ImageService) { } ngOnInit() { this.images = this.imageService.getImages();

CHECK APP AGAIN

















LIFECYCLE HOOKS

constructor: The constructor is always called first.

ngOnInit: This lifecycle hook is called after the constructor.

ngOnchanges: When the value of an input is changed, this lifecycle hook is executed.

ngDoCheck: When the input properties are checked, this method will be called.

ngAfterContentInit: When the content of the component is initialized, this hook is called. A component-only hook.

ngAfterContentChecked: Called after the content is checked. A component-only hook.

ngAfterViewInit: After a view is initialized, this hook is called. A componentonly hook.

ngAfterViewChecked: After a view is checked, this hook is called. A component-only hook.

ngOnDestroy: This method is called before Angular destroy the component/directive.

END OF PART 7