



ANGULAR 2 FUNDAMENTALS

December 13, 2017

PART 8

CREATING IMAGE-DETAIL COMPONENT

- Click on image and view its full size
- `ng g c image-detail`

USER INPUT EVENTS

- Using the click event to display a full size image when a thumbnail is clicked
- Open image-list.component.html and find:

```
<ng-image *ngFor="let image of images" [image]="image"></ng-image>
```

- Change to:

```
<ng-image *ngFor="let image of images" [image]="image" (click)="onSelect(image)"></ng-image>
```

- (output) = “action” //output binding
- We usually use output binding to respond to an event

CREATE ONSELECT METHOD

- Open image-list.component.ts and find:

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

- Add below:

```
selectedImage: Image;
```

- Find:

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

- Add below:

```
onSelect(image: Image) {  
  this.selectedImage = image;  
}
```


WE NEED TO SEND IT TO OUR CHILD COMPONENT

- Open image-list.component.html and add at the top

```
<ng-image-detail [selectedImage]="selectedImage"></ng-image-detail>
```

- Again to receive the selected image we need the @Input annotation.
- Open image-detail.component.ts and find:

```
export class ImageDetailComponent implements OnInit {
```

- Add below:

```
@Input() selectedImage: Image;
```

STILL ON DETAIL COMPONENT

- Don't forget to input the following:

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

IMAGE-DETAIL.COMPONENT.HTML

```
<div *ngIf="selectedImage">
  <div class="container image-detail">
    <div class="row">
      <div class="col-sm-8 col-xs-12">
        <img [src]="selectedImage.imageUrl" class="img-responsive">
      </div>
      <div class="col-sm-4 col-xs-12">
        <h1>{{selectedImage.title}}</h1>
        <p>{{selectedImage.description}}</p>
      </div>
    </div>
  </div>
</div>
```


IMAGE-DETAIL.COMPONENT.CSS

```
.image-detail {  
  margin: 20px auto;  
}
```

If we don't want to see any full-size image before clicking on an image, we may use **ngIf** directive to hide the image:

```
<div *ngIf="selectedImage">
```

CHECK THE APP



First image

First image description



OTHER WAYS OF WRITING IT

Here are some new tips. Instead of writing like this:

```

```

We may write this way:

```
<img [src]="selectedImage.imageLink" class="img-responsive">
```

EMITTING CUSTOM EVENTS USING EVENTEMITTER

- Our app is working fine but not quite right.
- In order to use image-detail component we have to put it in image list component

IMAGE-LIST.COMPONENT.HTML

```
<ng-image-detail [selectedImage]="selectedImage"></ng-image-detail>

<div class="container image-list">
  <div class="row">
    <ng-image *ngFor="let image of images" [image]="image" (click)="onSelect(image)"></
ng-image>
  </div>
</div>
```


LET SAY WE WANT TO PUT IT IN GALLERY COMPONENT

gallery.component.html

```
<ng-image-detail [selectedImage]="selectedImage"></ng-image-detail>  
<ng-image-list></ng-image-list>
```

RAISING AN EVENT

- Open image-list.component.ts find:

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

- Add above:

```
@Output() selectedEvent: EventEmitter<Image> = new EventEmitter<Image>();
```

- Don't forget to import from angular core

```
import {Component, OnInit, EventEmitter, Output} from '@angular/core';
```

- We have now created a new custom event (selectedEvent)!
- Now we can use EventEmitter.emit(payload) to fire an event.

FIRING AN EVENT

➤ Find

```
onSelect(image: Image) {  
  this.selectedImage = image;  
}
```

➤ Modify

```
onSelect(image: Image) {  
  this.selectedEvent.emit(image);  
}
```

➤ That is how we emit the image object!

IN GALLERY.COMPONENT.HTML

```
<ng-image-detail [selectedImage]="selectedImage"></ng-image-detail>  
  
<ng-image-list (selectedEvent)="selectImage($event)"></ng-image-list>
```

OPEN GALLERY.COMPONENT.TS

➤ Find:

```
export class GalleryComponent implements OnInit {
```

➤ Add below:

```
selectedImage: Image;
```

➤ Find:

```
ngOnInit() {  
}
```

➤ Add below:

```
selectImage(image: Image) {  
  this.selectedImage = image;  
}
```

OPEN GALLERY.COMPONENT.TS

- Don't forget to import

```
import {Image} from '../models/image';
```

- Check gallery page

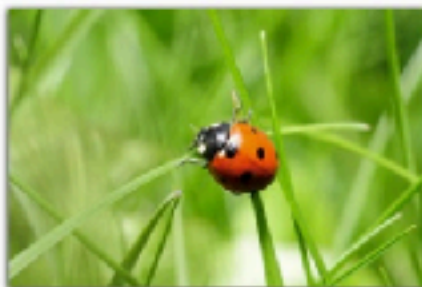
GALLERY PAGE

.....



First image

First image description



END OF PART 8