**EXERCISE SIX DIRECTIVES**

1. In this exercise we will use ngFor and ngClass.
2. Let’s build a books inventory site showing a list of books for sale.
3. Inside your app create a component called book-inventory.
4. Create a class called Publication. It will represent a publication you can read.
5. Create a file called publication.ts. You can actually use the CLI to generate this file.
   1. Inside the file, export the class.
   2. In the constructor, take the id, year published, author, topic, price, feature (Boolean), and a string array of photos.
   3. Save this file and write the component code.
6. Open the component ts file.
   1. Import the class
   2. In the component class add a variable to store a list of publications. For now we have to hard-code.

export class BookInventoryComponent implements OnInit {

inventory: Publication[] = [

{

ISBN: "1234",

year: 2012,

author: "Bob Vance",

topic: "Hit all Angles with Angular",

price: 900.00,

featured: false,

photos: ["/assets/","/assets/","/assets/"]

},

{

ISBN: "1454",

year: 2013,

author: "Bob Loblaw",

topic: "Reactive Code With React",

price: 500.00,

featured: false,

photos: ["/assets/","/assets/","/assets/"]

},

{

ISBN: "1334",

year: 2010,

author: "Meredith Arthur",

topic: "Scripting with TypeScript",

price: 590.00,

featured: false,

photos: ["/assets/","/assets/","/assets/"]

}]

...

}

1. In the component template, loop through the books inventory and print out each piece.
2. In the app component html file, use the selector for book-inventory.
3. Let’s go to CSS to style the book-inventory component.

.featured-item {

border: thin black solid;

border-radius: 10px;

padding: 10px;

background-color: #cfcfcf;

}

1. Let’s apply the class conditionally. Open the book-inventory component html and in the <div> tag add ngClass. Apply the featured-item class if the featured book is true.

<div \*ngFor="let book of inventory" [ngClass] = "{'featured-item':book.featured}">

1. If a book is featured, a paragraph should display with the book information.
2. Use trackBy to uniquely identify each item in the array. Add it to the div with the for, and write a function for it.

<div \*ngFor="let book of inventory; trackBy: trackByISBN"[ngClass]="{'featured-item': book.featured}">

1. This is the function for trackbyISBN

trackByISBN(index:number, book:Publication) : string {

return book.ISBN

}

1. Let’s use event handling to add features. Note that some of the code will be in the ts file and some will be in the html.
   1. Create a function that deletes a book.

deletePublication (book:Publication){

this.inventory = this.inventory.filter(b => b.id != book.id)

}

* 1. Add a delete button to the book-inventory component html.

<button (click) = "deletePublication (book)">Delete</button>

* 1. Add a message if inventory is empty:

<p \*ngIf="inventory.length===0">There are no books.</p>