**Module 7: Laboratory Exercises**

**Exercise 1: Displaying Images**

#### Task 1: Creating the view for Image Gallery

1. In the start menu click on **Visual Studio Code.**
2. In the **Visual Studio Code** window click **File** then click **Open Folder.**
3. In the dialog box navigate to **D:\ ITLCANGULAR\MOD7\Starter\Exercise1\LaptopWebApplication,** then click **Select Folder.**
4. In the **Visual Studio Code Explorer,** expand the **src** folder then right click the **app** folder then click **New Folder.**
5. Name the new folder to **laptopimagegallery.**
6. Right click the **laptopimagegallery** folder then click **New File**.
7. Name the new file to **gallery.component.ts.**
8. Right click the **laptopimagegallery** folder then click **New File**.
9. Name the new file to **gallery.component.html.**
10. In the **gallery.component.html.,** add the following codes.

**<section>**

**</section>**

1. Inside the **section** element add the following codes.

**<div></div>**

**<div></div>**

1. Inside the first div element, add the following code.

**<img src=”” width=”300”/>**

1. Inside the second div element, add the following code.

**<div class=”thumb”>**

**<img src=”” width=”50”/>**

**</div>**

1. In the **Visual Studio Code** click **File** then click **Save All.**

#### Task 2: Creating the component for image gallery.

1. In the **Visual Studio Code Explorer,** under **laptopimagegallery** folder click the **gallery.component.ts** file.
2. Inside the **gallery.component.ts** add the following codes.

**import { Component,Input } from “@angular/core”;**

**@Component({**

**selector:’laptop-gallery’,**

**templateUrl:’gallery.component.html’**

**})**

**export class LaptopGalleryComponent{**

**}**

1. In the **gallery.component.ts** add the following codes inside the class **LaptopGalleryComponent** class.

**@Input() images:any**

**imgIndex=0;**

1. After the code that you have just added add the following code that will be called when an image is clicked.

**setImage=function(img){**

**this.imgIndex=img;**

**};**

1. After the code that you have just added add the following code that will get the index of the selected image.

**getImageIndex = function(){**

**return this.imgIndex;**

**};**

1. After the code that you have just added add the following code that will check what image is currently selected.

**isSelectedImage = function(imageSelected){**

**return this.imgIndex ===imageSelected;**

**};**

1. In the **Visual Studio Code** explorer click on **app.module.ts.**
2. In the **app.module.ts** add following codes in the list of imports.

**import{ LaptopGalleryComponent } from ‘./laptopimagegallery/gallery.component’;**

1. In the list **declarations array** inside the @NgModule add the following code.

**,LaptopGalleryComponent**

1. In the **Visual Studio Code** click **File** then click **Save All.**

#### Task 3: Modifying the template for image gallery.

1. In the Visual Studio explorer double click the **gallery.component.html.**
2. In the **gallery.component.html** locate the following code.

**<img src=”” width=”300”/>**

1. Replace the located code with the following code.

**<img src=”../../assets/images/{{images[getImageIndex()].filename}}” width=”300”/>**

1. In the **gallery.component.html** locate the following code.

**<div class=”thumb”>**

1. Replace the located code with the following code.

**<div \*ngFor=”let image of images; let i=index” class=”thumb”>**

1. In the **gallery.component.html** locate the following code.

**<img src=”” width=”50”/>**

1. Replace the located code with the following code.

**<img src=”../../assets/images/{{image.filename}}” width=”50” (click)=”setImage(i)” [ngClass]=”{selected:isSelectedImage(i)}”/>**

1. In the **Visual Studio Code** click **File** then click **Save All.**
2. In the **Visual Studio Code** explorer expand the **laptops** folder then click the **laptoplist.component.html.**
3. In the **laptoplist.component.html** locate the following code.

**<em class="float-right">{{laptop.price | currency:"PHP "}}</em>**

**</h3>**

1. After the located code add the following code.

**<div>**

**<laptop-gallery [images]=laptop.images></laptop-gallery>**

**</div>**

1. In **Visual Studio Code** explorer click on **styles.css**
2. In the **styles.css** add the following codes.

**.thumb{**

**display:inline;**

**}**

**.selected{**

**border:solid 5px #ddd;**

**border-radius:20px;**

}

1. In the **Visual Studio Code** click **File** then click **Save All.**

#### Task 4: Adding the static images gallery.

1. In the start menu click on **File Explorer**.
2. In the **File Explorer** navigate to **D:\Mod7.**
3. In the **D:\ ITLCANGULAR\Mod7** right click the **images** folder then click **copy.**
4. In the **File Explorer** navigate to **D:\ ITLCANGULAR\MOD7\Starter\Exercise1\LaptopWebApplication\src\assets**
5. Right click inside the **assets** folder then click **paste.**
6. In the **File Explorer** window click on close.
7. In the Start menu click on **Node.js command prompt.**
8. In the **Node.js command prompt** enter the following command.

**>D:**

**>cd ITLCANGULAR\MOD7\Starter\Exercise1\LaptopWebApplication**

1. In the **Node.js command prompt** enter the following command.

**>ng serve**

1. In the start menu click on Google Chrome then browse the address, **http://localthost:4200.**
2. Verify that the webpage now displays the images.
3. In the webpage click any thumbnail images.
4. Verify that the Larger image changes.

#### Task 5: Displaying the images from the server.

1. In the **gallery.component.html** locate the following code.

**<img src=”../../assets/images/{{images[getImageIndex()].filename}}” width=”300”/>**

1. Replace the located code with the following code.

**<img src=”http://localhost/laptopapi/laptop/getimage?filename={{images[getImageIndex()].filename}}” width=”300”/>**

1. In the **gallery.component.html** locate the following code.

**<img src=”../../assets/images/{{image.filename}}” width=”50” (click)=”setImage(i)” [ngClass]=”{selected:isSelectedImage(i)}”/>**

1. Replace the located code with the following codes.

**<img src=”http://localhost/laptopapi/laptop/getimage?filename={{image.filename}}” width=”50” (click)=”setImage(i)” [ngClass]=”{selected:isSelectedImage(i)}”/>**

1. In the **Visual Studio Code** click **File** then click **Save All.**
2. In the Google chrome window click **Close.**
3. In the **Visual Studio Code** click **Close.**
4. In the Node.js command prompt click **Close.**