PART 9

ROUTING

ANGULAR ROUTING

➤ One of the most crucial features of angular is routing

➤ Handled by angular router

➤ We can divide our app into different areas (pages) and tell angular where to map to

➤ We will use a hash technique

CREATING OUR FIRST ROUTES

➤ Currently our app has 3 pages so we will create 3 routes

➤ A Gallery Page

➤ A About Page

➤ A Contact Page

LET'S CREATE ADDITIONAL COMPONENTS

➤ ng g c contact

➤ ng g c about

OPEN APP.MODULE.TS

➤ Add above @NgModule({

```
const appRoutes: Routes = [
  { path: '', redirectTo:'/gallery', pathMatch: 'full'},
  { path: 'gallery', component: GalleryComponent},
  { path: 'contact', component: ContactComponent},
  { path: 'about', component: AboutComponent}
];
```

➤ We need to import the router module

```
import {Routes, RouterModule} from '@angular/router';
```

➤ Find:

```
imports: [
  BrowserModule,
],
```

OPEN APP.MODULE.TS

➤ Update:

```
imports: [
  RouterModule.forRoot(appRoutes),
  BrowserModule,
],
```

APP.MODULE.TS

```typescript
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';


import { AppComponent } from './app.component';
import { NavbarComponent } from './navbar.component';
import { GalleryComponent } from './gallery/gallery.component';
import { ImageListComponent } from './gallery/image-list/image-list.component';
import { ImageComponent } from './gallery/image-list/image.component';
```

APP.MODULE.TS

```typescript
import { ImageService } from './services/image.service';
import { ImageDetailComponent } from './gallery/image-detail/image-detail.component';
import { ContactComponent } from './contact/contact.component';
import { AboutComponent } from './about/about.component';
import {Routes, RouterModule} from '@angular/router';

const appRoutes: Routes = [
  { path: '', redirectTo:'/gallery', pathMatch: 'full'},
  { path: 'gallery', component: GalleryComponent},
  { path: 'contact', component: ContactComponent},
  { path: 'about', component: AboutComponent}
];

@NgModule({
  declarations: [
    AppComponent,
    NavbarComponent,
    GalleryComponent,
    ImageListComponent,
    ImageComponent,
    ImageDetailComponent,
    ContactComponent,
    AboutComponent
  ],
  imports: [
    RouterModule.forRoot(appRoutes),
    BrowserModule
  ],
  providers: [ImageService],
  bootstrap: [AppComponent]
})
export class AppModule { }
```
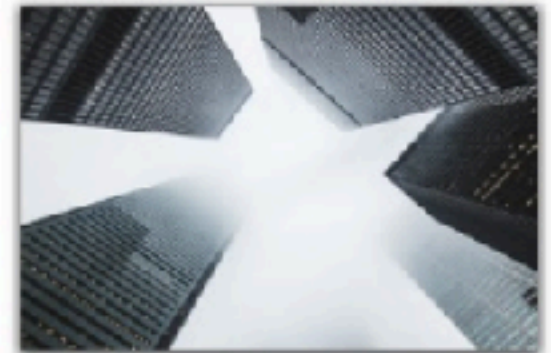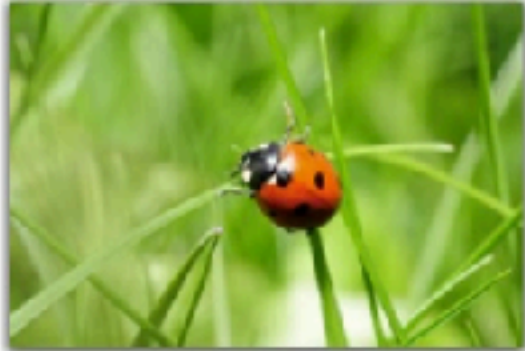
OPEN APP.COMPONENT.HTML TO RENDER ROUTES

➤ Find:

```
<ng-navbar></ng-navbar>
<ng-gallery></ng-gallery>
```

➤ Modify:

```
<ng-navbar></ng-navbar>
<router-outlet></router-outlet>
```

VISIT LOCALHOST:4200/GALLERY

TRY OTHER ROUTES

➤ /about

➤ /contact

EDIT NAVBAR

➤ Find:

```
<li class="active"><a href="/">Home</a></li>
      <li><a href="/about">About</a></li>
      <li><a href="/contact">Contact</a></li>
```

➤ Replace:

```
<li class="active"><a [routerLink]="['/']">Home</a></li>
<li><a [routerLink]="['/about']">About</a></li>
<li><a [routerLink]="['/contact']">Contact</a></li>
```

➤ Check if site is working

MAKING THE LINK ACTIVE

➤ Find:

```
<li class="active"><a [routerLink]="['/']">Home</a></li>
<li><a [routerLink]="['/about']">About</a></li>
<li><a [routerLink]="['/contact']">Contact</a></li>
```

➤ Replace:

```
<li routerLinkActive="active"><a [routerLink]="['/gallery']">Home</a></li>
<li routerLinkActive="active"><a [routerLink]="['/about']">About</a></li>
<li routerLinkActive="active"><a [routerLink]="['/contact']">Contact</a></li>
```

THERE IS A GALLERY BUG

➤ When clicking on a thumbnail, the page is reloaded, problem is we are still using a normal html link

IMAGE.COMPONENT.HTML

➤ Easiest is to remove the a tag or href attribute

```
<a href="#">
  <div class="col-md-3 col-sm-4 col-xs-6"><img class="img-responsive" src="{{image.thu
mbnail}}" /></div>
</a>
```

➤ To:

```
<a>
  <div class="col-md-3 col-sm-4 col-xs-6"><img class="img-responsive" src="{{image.thu
mbnail}}" /></div>
</a>
```

➤ If you want to retain the hand cursor us the following css code.

➤ Open image.component.ts and find:

```
img:hover {
  filter: gray; /* IE6-9 */
  -webkit-filter: grayscale(1); /* Google Chrome, Safari 6+ & Opera 15+ */
}
```

➤ Add below:
```
a:hover {
      cursor:pointer;

}
```

MOVING ROUTES TO ANOTHER FILE

➤ Create an app.routes.ts file inside nggallery/src/app

➤ Move the following in app.routes.ts

```
import {Routes, RouterModule} from "@angular/router";
import {GalleryComponent} from "./gallery/gallery.component";
import {ContactComponent} from "./contact/contact.component";
import {AboutComponent} from "./about/about.component";
import {ModuleWithProviders} from "@angular/core";
```

ADD BELOW STILL

➤ Be sure all imports in previous are present.

```
const appRoutes: Routes = [
  { path: '', redirectTo:'/gallery', pathMatch: 'full'},
  { path: 'gallery', component: GalleryComponent},
  { path: 'contact', component: ContactComponent},
  { path: 'about', component: AboutComponent}
];

export const routes:ModuleWithProviders = RouterModule.forRoot(appRoutes);
```

➤ The export again is so that it can be used in other files

OPEN APP.MODULE.TS

➤ Remove:

```
import {Routes, RouterModule} from '@angular/router';
```

➤ Add at the top

```
import {routes} from './app.routes';
```

➤ Remove:

```
const appRoutes: Routes = [
  { path: '', redirectTo:'/gallery', pathMatch: 'full'},
  { path: 'gallery', component: GalleryComponent},
  { path: 'contact', component: ContactComponent},
  { path: 'about', component: AboutComponent}
];
```

APP.MODULE.TS

➤ Find:

```
RouterModule.forRoot(appRoutes),
```

➤ Replace:

```
routes,
```

COMPLETE APP.MODULE.TS

```typescript
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';


import { AppComponent } from './app.component';
import { NavbarComponent } from './navbar.component';
import { GalleryComponent } from './gallery/gallery.component';
import { ImageListComponent } from './gallery/image-list/image-list.component';
import { ImageComponent } from './gallery/image-list/image.component';
import { ImageService } from './services/image.service';
import { ImageDetailComponent } from './gallery/image-detail/image-detail.component';
import { ContactComponent } from './contact/contact.component';
import { AboutComponent } from './about/about.component';


import {routes} from './app.routes';
```

COMPLETE APP.MODULE.TS

```typescript
@NgModule({
  declarations: [
    AppComponent,
    NavbarComponent,
    GalleryComponent,
    ImageListComponent,
    ImageComponent,
    ImageDetailComponent,
    ContactComponent,
    AboutComponent
  ],
  imports: [
    routes,
    BrowserModule
  ],
  providers: [ImageService],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

END OF PART 9