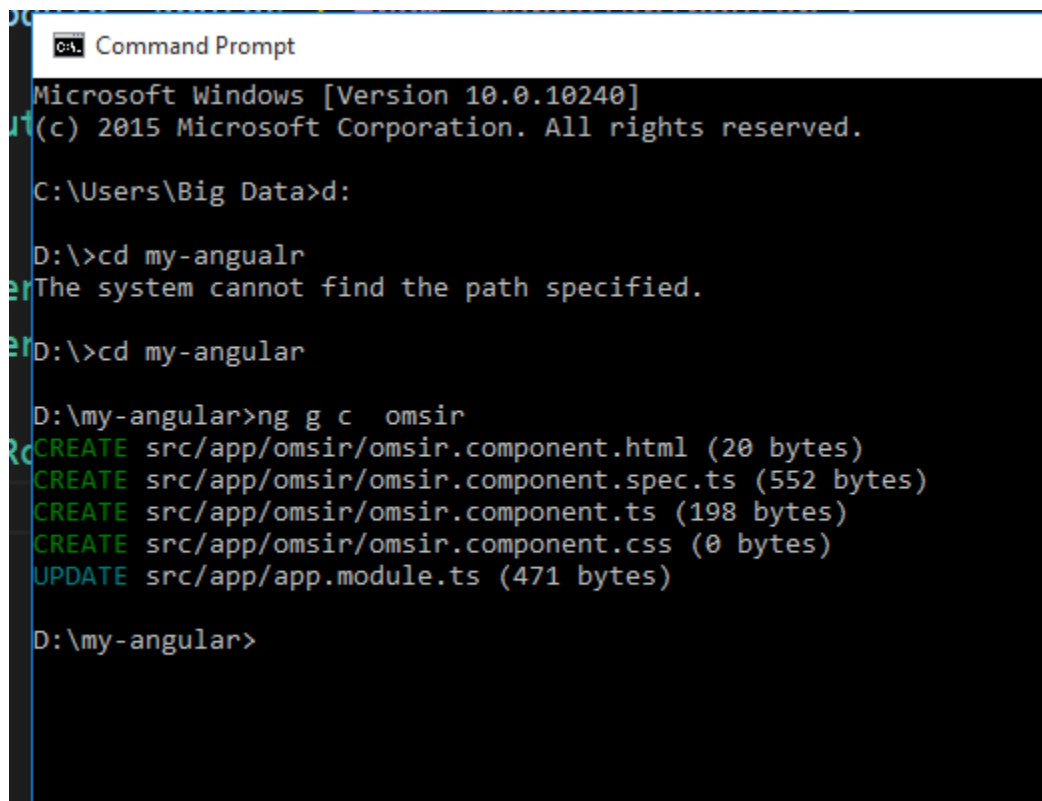


Angular Component with Event handling example & routing example :-

First go to your project folder for example "my-angular"

ng g c "component name"

See example given below :-



```
Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\Big Data>d:

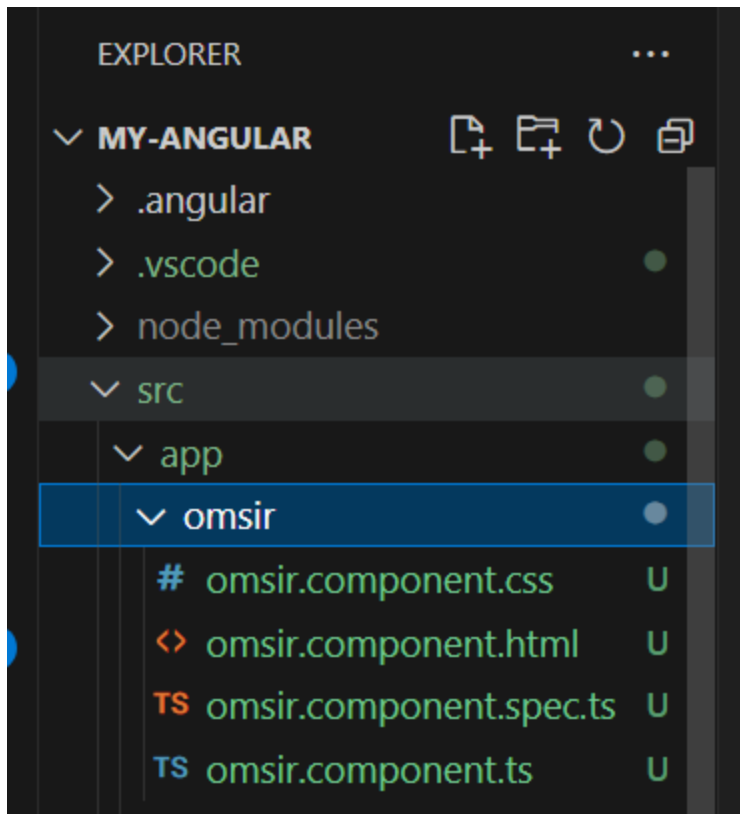
D:\>cd my-angular
The system cannot find the path specified.

D:\>cd my-angular

D:\my-angular>ng g c omsir
CREATE src/app/omsir/omsir.component.html (20 bytes)
CREATE src/app/omsir/omsir.component.spec.ts (552 bytes)
CREATE src/app/omsir/omsir.component.ts (198 bytes)
CREATE src/app/omsir/omsir.component.css (0 bytes)
UPDATE src/app/app.module.ts (471 bytes)

D:\my-angular>
```

After it you will see structure of omsir component as shown below:-



After it you can add your own css code in `omsir.component.css` file as shown below :-

```
# omsir.component.css U x <> omsir.component.html U
src > app > omsir > # omsir.component.css > h1
1 h1{color: red; background-color: aqua;}
```

And go to your `omsir.component.html` file :-

```
<h1>omsir works!</h1>
```

After it now make **routing of this component**

Step 1:-

Import `RouterModule` from `@angular/router`

Routing lets you display specific views of your application depending on the URL path. To add this functionality to your sample application, you need to update the `app.module.ts` file to use the module, `RouterModule`. You import this module from `@angular/router`.

1. From your code editor, open the `app.module.ts` file.
2. Add the following `import` statement.
`src/app/app.module.ts`

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

and another things you need to do is

1. From your code editor, open the `app.module.ts` file.
2. Locate the `@NgModule()` section.
3. Replace the `imports` array in that section with the following.

```
imports: [  
  BrowserModule,  
  RouterModule.forRoot(  
    {path: 'omsir', component: OmsirComponent},  
  ]),  
],
```

So finally your `app.module.ts` file code will be like this save it :-

```
import { NgModule } from '@angular/core';  
import { BrowserModule } from '@angular/platform-browser';  
  
import { AppRoutingModule } from './app-routing.module';  
import { AppComponent } from './app.component';  
import { OmsirComponent } from './omsir/omsir.component';  
import { RouterModule } from '@angular/router';
```

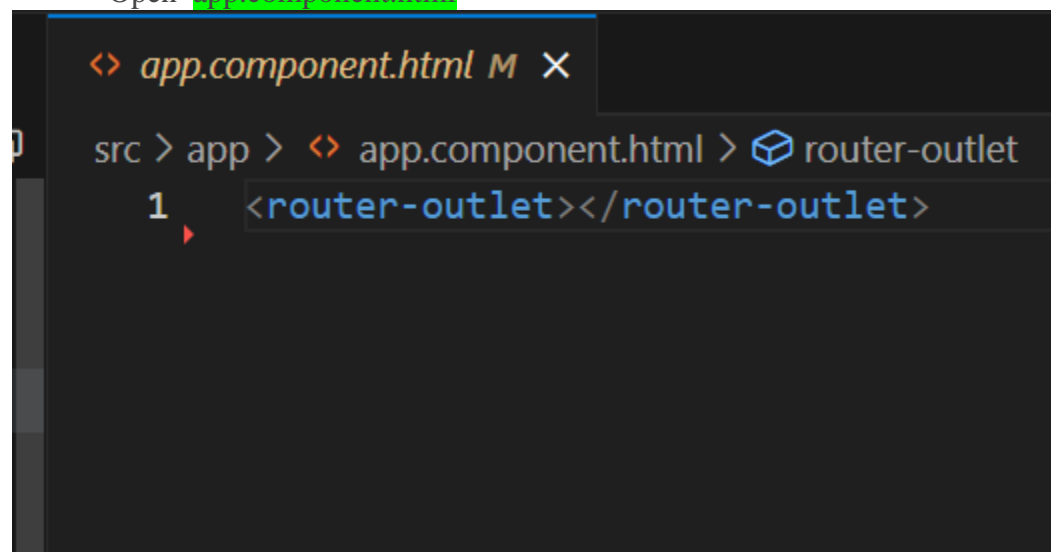
```
@NgModule({
  declarations: [
    AppComponent,
    OmsirComponent
  ],
  imports: [
    BrowserModule,
    RouterModule.forRoot([
      {path: 'omsir', component: OmsirComponent},
    ]),
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

after it

Update your component with [router-outlet](#)

1. Add the `router-outlet` directive.

Open `app.component.html`



```
<> app.component.html M X
src > app > <> app.component.html > router-outlet
1 <router-outlet></router-outlet>
```

Finally run your application as shown below using `npm start`

```
D:\my-angular>npm start
> my-angular@0.0.0 start
> ng serve

✓ Browser application bundle generation complete.

Initial Chunk Files | Names | Raw Size
vendor.js           | vendor | 2.34 MB
polyfills.js       | polyfills | 333.18 kB
styles.css, styles.js | styles | 230.45 kB
main.js            | main | 49.66 kB
runtime.js         | runtime | 6.52 kB
```



omsir works!

After it you can add event handling examples as show below:-

Open `omsir.component.ts` file and

Add following code inside `class OmsirComponent`

```
message = 'Hello, World';

sayMessage()
{
  alert(this.message);
}
```

As shown below

```
TS omsir.component.ts U X
src > app > omsir > TS omsir.component.ts > OmsirComponent
1  import { Component } from '@angular/core';
2
3  @Component({
4    selector: 'app-omsir',
5    templateUrl: './omsir.component.html',
6    styleUrls: ['./omsir.component.css']
7  })
8  export class OmsirComponent {
9
10
11    message = 'Hello, World';
12
13    sayMessage()
14    {
15      alert(this.message);
16    }
17  }
18
```

After it open omsir.component.html file code:-

Add following code as shown below

```
<button
  type="button"

  (click)="sayMessage()">

  Trigger alert message

</button>
```



```
<> omsir.component.html U ✕  
src > app > omsir > <> omsir.component.html > ...  
1 <h1>omsir works!</h1>  
2  
3 <button  
4   type="button"  
5  
6   (click)="sayMessage()">  
7   Trigger alert message  
8 </button>  
9
```

After it run and see output

```
D:\my-angular>npm start  
> my-angular@0.0.0 start  
> ng serve  
  
√ Browser application bundle generation complete  
  
Initial Chunk Files | Names | Raw  
vendor.js | vendor | 2.  
polyfills.js | polyfills | 333.  
styles.css, styles.js | styles | 230.  
main.js | main | 49.
```

Output:-



Now we will learn how to add bootstrap in this project

For this open your project folder in cmd

And type command `ng add ngx-bootstrap` as shown below

```
Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\Big Data>d:

D:\>cd my-angular

D:\my-angular>ng add ngx-bootstrap
i Using package manager: npm
√ Found compatible package version: ngx-bootstrap@11.0.2.
√ Package information loaded.

The package ngx-bootstrap@11.0.2 will be installed and executed.
Would you like to proceed? Yes
√ Packages successfully installed.
  [x] Added "bootstrap"
  [x] Added "ngx-bootstrap"
UPDATE package.json (1099 bytes)
UPDATE angular.json (2935 bytes)
UPDATE src/app/app.module.ts (699 bytes)
√ Packages installed successfully.

D:\my-angular>
```

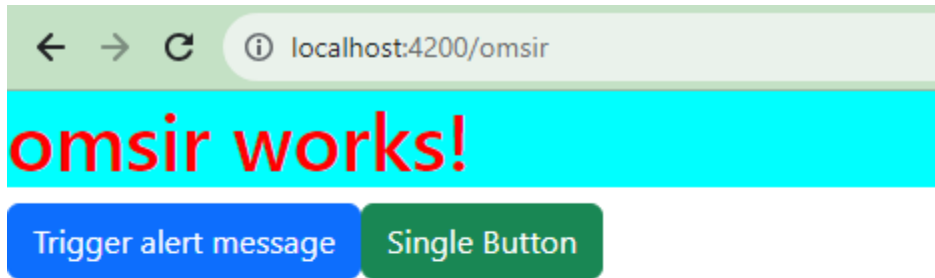

After installation open your `omsir.component.html` file and add following `class="btn btn-primary"` to your `<button >` tag as shown below.

```
<> omsir.component.html U ✕
src > app > omsir > <> omsir.component.html > button.btn.btn-success
1   <h1>omsir works!</h1>
2
3   <button
4     type="button" class="btn btn-primary"
5
6     (click)="sayMessage()">
7     Trigger alert message
8   </button>
9
10
11  <button type="button" class="btn btn-success">
12    Single Button
13  </button>
14
```

And run project as shown below

```
D:\my-angular>npm start
> my-angular@0.0.0 start
> ng serve
√ Browser application bundle generation complete
Initial Chunk Files | Names | Raw Size
vendor.js           | vendor | 2.57 MB
styles.css, styles.js | styles | 474.07 KB
polyfills.js       | polyfills | 333.18 KB
main.js            | main | 7.70 KB
```

You will see following output:-

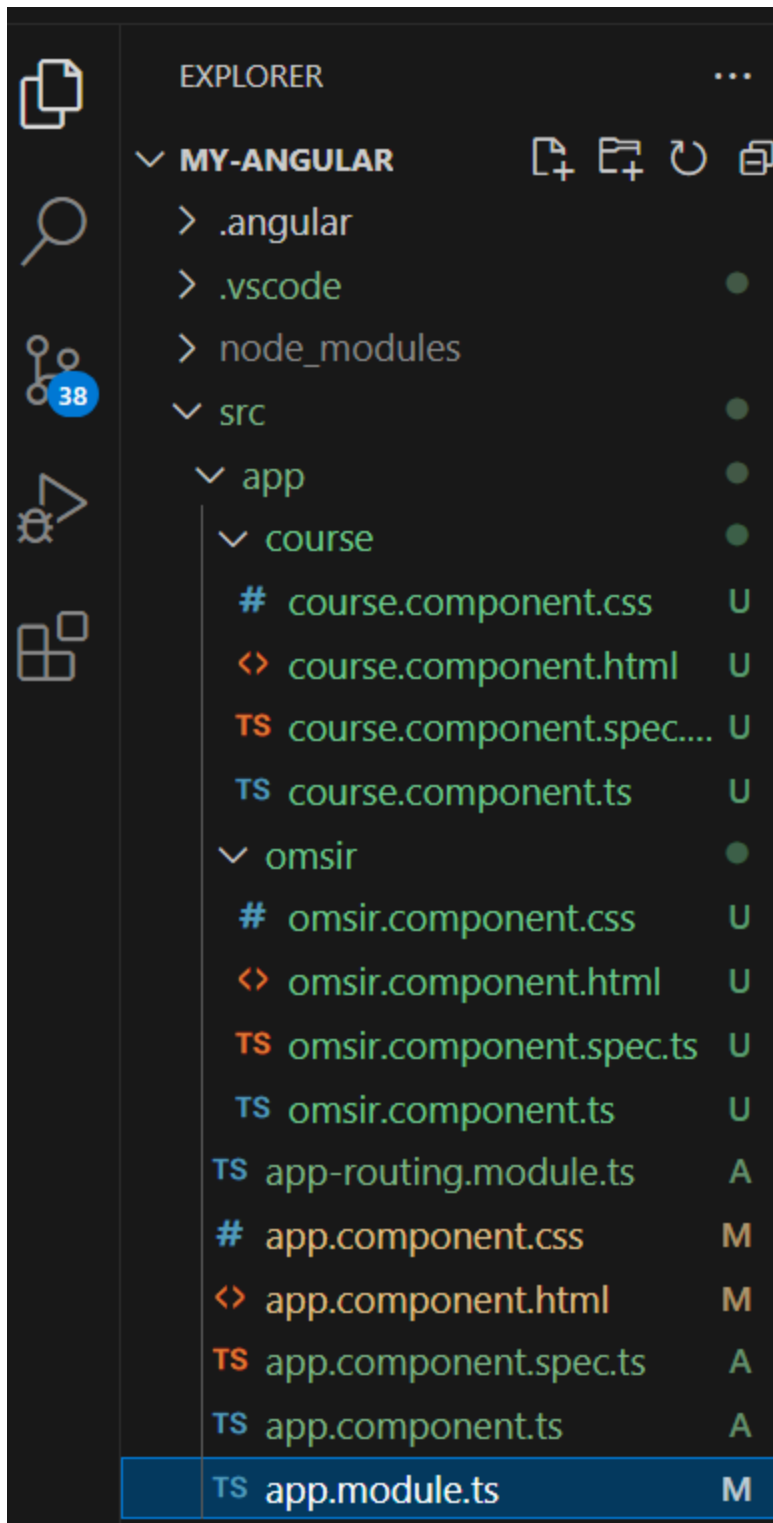


Now add second component course :-

Use command `ng g c course` here course is component.

```
D:\>cd my-angular
D:\my-angular>ng g c course
CREATE src/app/course/course.component.html (21 bytes)
CREATE src/app/course/course.component.spec.ts (559 bytes)
CREATE src/app/course/course.component.ts (202 bytes)
CREATE src/app/course/course.component.css (0 bytes)
UPDATE src/app/app.module.ts (781 bytes)
D:\my-angular>
```

After it open in visual code :-



Now open app.module.ts file and add path

```
RouterModule.forRoot([
  {path: 'omsir', component: OmsirComponent},
  {path: 'course', component: CourseComponent},
]),
```

To app.module.ts file as shown below.

:-

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

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { OmsirComponent } from './omsir/omsir.component';
import { RouterModule } from '@angular/router';
import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
import { CourseComponent } from './course/course.component';

@NgModule({
  declarations: [
    AppComponent,
    OmsirComponent,
    CourseComponent
  ],
  imports: [
    BrowserModule,
    RouterModule.forRoot([
      {path: 'omsir', component: OmsirComponent},
      {path: 'course', component: CourseComponent},
    ]),
    BrowserAnimationsModule,
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

in `course.component.html` add following code:-

```
<p>course works!</p>
```

Finally

```
<> app.component.html M X
src > app > <> app.component.html > router-outlet
1 <router-outlet></router-outlet>
```

And run your project

```
D:\my-angular>npm start
> my-angular@0.0.0 start
> ng serve

√ Browser application bundle generation complete.

Initial Chunk Files | Names          | Raw Size
vendor.js           | vendor        | 2.57 MB
styles.css, styles.js | styles       | 474.07 kB
polyfills.js       | polyfills    | 333.18 kB
main.js            | main         | 9.38 kB
runtime.js         | runtime      | 6.52 kB
                    | Initial Total | 3.37 MB

Build at: 2023-09-22T08:06:39.502Z - Hash: 5e7f4c2e754edafa - Time: 14705ms

** Angular Live Development Server is listening on localhost:4200, open your
browser at http://localhost:4200/

√ Compiled successfully.
```

Finally open

← → ↻ ⓘ localhost:4200/course

course works!