

## Lesson 02 Demo 05 Implementing Routing Mechanisms

Objective: To implement static and dynamic routing

Tools required: Ubuntu, Visual Studio, and Node.js

**Pre-requisites:** Knowledge of JavaScript, Typescript, and Node.js

## Steps to be followed:

1. Create an angular app and perform static routing

2. Perform dynamic routing

## Step 1: Create an angular app

- 1.1 Open Visual Studio
- 1.2 Create a new project, using the command **ng new angularexamples** and enter yes

```
npm WARN using --force Recommended protections disabled.

• labuser@ubuntu2204:~$ npm update

up to date, audited 5 packages in 830ms

found 0 vulnerabilities

• labuser@ubuntu2204:~$ npm i @angular/core -s

• labuser@ubuntu2204:~$ np new angularexamples

? Would you like to add Angular routing? (y/N)
```

1.3 Open the project folder created. File->open folder->angularexamples



1.4 Now, go to the terminal and type the following command:

ng g c cources

```
• labuser@ubuntu2204:~/angularexamples$ ng g c cources
? Would you like to share pseudonymous usage data about this project with the Angular Team at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more details and how to change this setting, see https://angular.io/analytics. Yes

Thank you for sharing pseudonymous usage data. Should you change your mind, the following command will disable this feature entirely:

ng analytics disable

Global setting: enabled
Local setting: enabled
```

**Note:** These are names of the tabs where we will be performing the routing on.

1.5 Go to **src->app->app-routing.module.ts** file and write the code below:

1.6 Go to app.component.html file and write the code below:

```
<h1> {{title}} - Static Routing</h1> <a routerLink="cources">Cources</a>
```



<br>

<router-outlet></router-outlet>

1.7 Go to app.module.ts file and see that the code should be automatically be updated as below:

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { CourcesComponent } from './cources/cources.component';
@NgModule({
 declarations: [
 AppComponent,
  CourcesComponent,
 ],
 imports: [
  BrowserModule,
 AppRoutingModule
 ],
 providers: [],
 bootstrap: [AppComponent]
})
export class AppModule { }
```

1.8 Run it on browser or run the command: npm run start

Click on any of the service and you will see that it is redirected to that service, as shown below:



**Note:** The above component comes under static routing.



## Step 2: Perform dynamic routing

2.1 Now, go to the terminal and type the commands:

```
ng g c Web_Devlopment ng g c Full_Stack
```

2.2 Go to **app-routing.module.ts** file and replace the code as below. Here we have added new routes for demonstrations purpose:



```
component:FullStackComponent
       }
       ]
      1;
       @NgModule({
       imports: [RouterModule.forRoot(routes)],
       exports: [RouterModule]
      })
      export class AppRoutingModule { }
2.2 Go to cources.component.html file and replace the code as below:
       <h1>Dynamic Routing</h1>
       <a routerLink="Web_Devlopment">Web Devlopment Cource</a>
       <br><br>
       <a routerLink="Full_Stack/121">Full Stack Cource</a>
       <br>
       <router-outlet></router-outlet>
2.3 Go to Full_Stack.component.html file and replace the code as below:
       full-stack works!
       <h2>ID is: {{ID}}</h2>
2.4 Go to Full-stack.component.ts file and replace the code as below:
      import { Component, OnInit } from '@angular/core';
      import { ActivatedRoute } from '@angular/router';
       @Component({
       selector: 'app-full-stack',
       templateUrl: './full-stack.component.html',
       styleUrls: ['./full-stack.component.css']
      export class FullStackComponent implements OnInit {
       constructor(private route: ActivatedRoute) { }
```

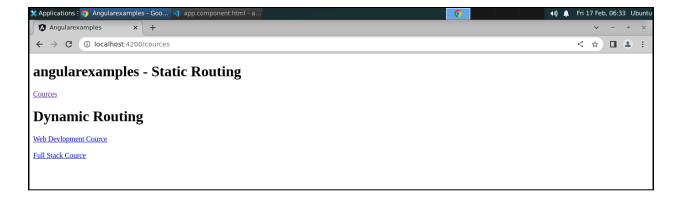


```
ID:any;

ngOnInit(): void {
  this.ID = this.route.snapshot.paramMap.get('id');
}
```

2.5 Save the file and run it on browser or use the command: npm run start









**Note:** Full stack come under dynamic routing as we are passing ID parameter for it. However, web development and course fall under static routing, where we are routing it to a specific place and not using an ID.