

Lesson 02 Demo 01

Routing and Navigation in Angular

Objective: To implement routing and navigation in Angular

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

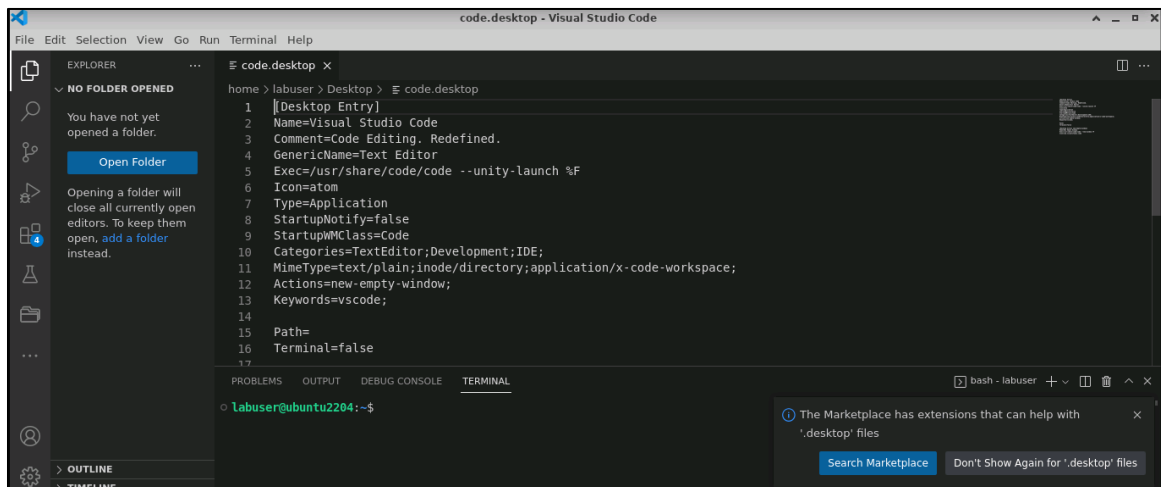
Pre-requisites: Knowledge of JavaScript, Typescript, Node.js

Steps to be followed:

1. Implementing Angular route and navigation
2. Running on the browser

Step 1: Implementing Angular route and navigation

1.1 Open Visual Studio



1.2 Create a new project using the command **ng new angularexamples** and enter **yes**

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

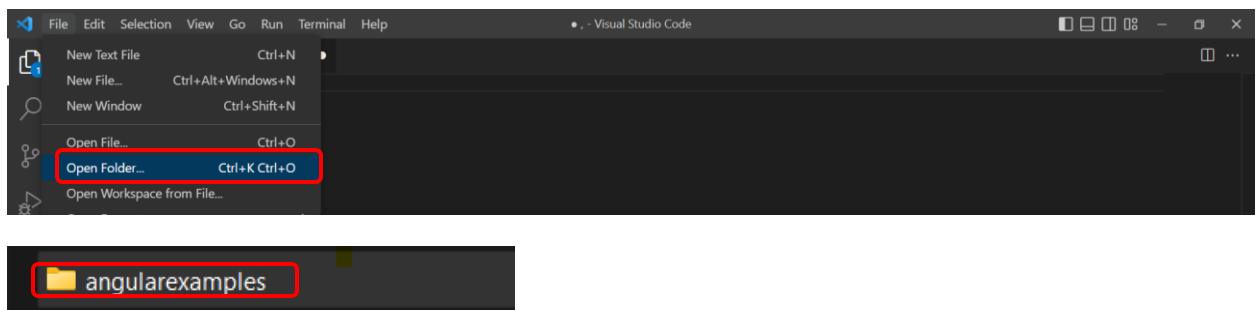
npm WARN using --force Recommended protections disabled.
● labuser@ubuntu2204:~$ npm update

up to date, audited 5 packages in 830ms

found 0 vulnerabilities
● labuser@ubuntu2204:~$ npm i @angular/core -s
○ labuser@ubuntu2204:~$ ng new angularexamples
? Would you like to add Angular routing? (y/N)

```

1.3 Open the project folder you created. **File>open folder>angularexamples**



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

ng g c clients

ng g c services

ng g c testimonials

```

PROBLEMS  8  OUTPUT  DEBUG CONSOLE  TERMINAL  GITLENS  SQL CONSOLE

● labuser@ubuntu2204:~/angularexamples$ ng g c clients
CREATE src/app/clients/clients.component.css (0 bytes)
CREATE src/app/clients/clients.component.html (22 bytes)
CREATE src/app/clients/clients.component.spec.ts (606 bytes)
CREATE src/app/clients/clients.component.ts (206 bytes)
UPDATE src/app/app.module.ts (704 bytes)
● labuser@ubuntu2204:~/angularexamples$ ng g c services
CREATE src/app/services/services.component.css (0 bytes)
CREATE src/app/services/services.component.html (23 bytes)
CREATE src/app/services/services.component.spec.ts (613 bytes)
CREATE src/app/services/services.component.ts (210 bytes)
UPDATE src/app/app.module.ts (794 bytes)
● labuser@ubuntu2204:~/angularexamples$ ng g c testimonials
CREATE src/app/testimonials/testimonials.component.css (0 bytes)
CREATE src/app/testimonials/testimonials.component.html (27 bytes)
CREATE src/app/testimonials/testimonials.component.spec.ts (641 bytes)
CREATE src/app/testimonials/testimonials.component.ts (226 bytes)
UPDATE src/app/app.module.ts (900 bytes)
○ labuser@ubuntu2204:~/angularexamples$

```

Note: These are names of the tabs which we will be performing the routing on

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

```
import { NgModule } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
import { ClientsComponent } from './clients/clients.component';
import { ServicesComponent } from './services/services.component';
import { TestimonialsComponent } from
'./testimonials/testimonials.component';

const routes: Routes = [
  {
    path: 'clients',
    component: ClientsComponent
  },
  {
    path: 'services',
    component: ServicesComponent
  },
  {
    path: 'testimonials',
    component: TestimonialsComponent
  }
];

@NgModule({
  imports: [RouterModule.forRoot(routes)],
  exports: [RouterModule]
})
export class AppRoutingModule { }
```

```

src > app > ts app-routing.module.ts > ...
4 import { ServicesComponent } from './services/services.component';
5 import { TestimonialsComponent } from './testimonials/testimonials.component';
6
7 const routes: Routes = [
8   {
9     path: 'clients',
10    component: ClientsComponent
11  },
12  {
13    path: 'services',
14    component: ServicesComponent
15  },
16  {
17    path: 'testimonials',
18    component: TestimonialsComponent
19  }
20 ];
21
22 @NgModule({
23   imports: [RouterModule.forRoot(routes)],
24   exports: [RouterModule]
25 })
26 export class AppRoutingModule { }
  
```

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

```

<h1> Routing </h1>
<a routerLink="clients">Clients</a>
<br>
<a routerLink="services">Services</a>
<br>
<a routerLink="testimonials">Testimonials</a>
<router-outlet></router-outlet>
  
```

```

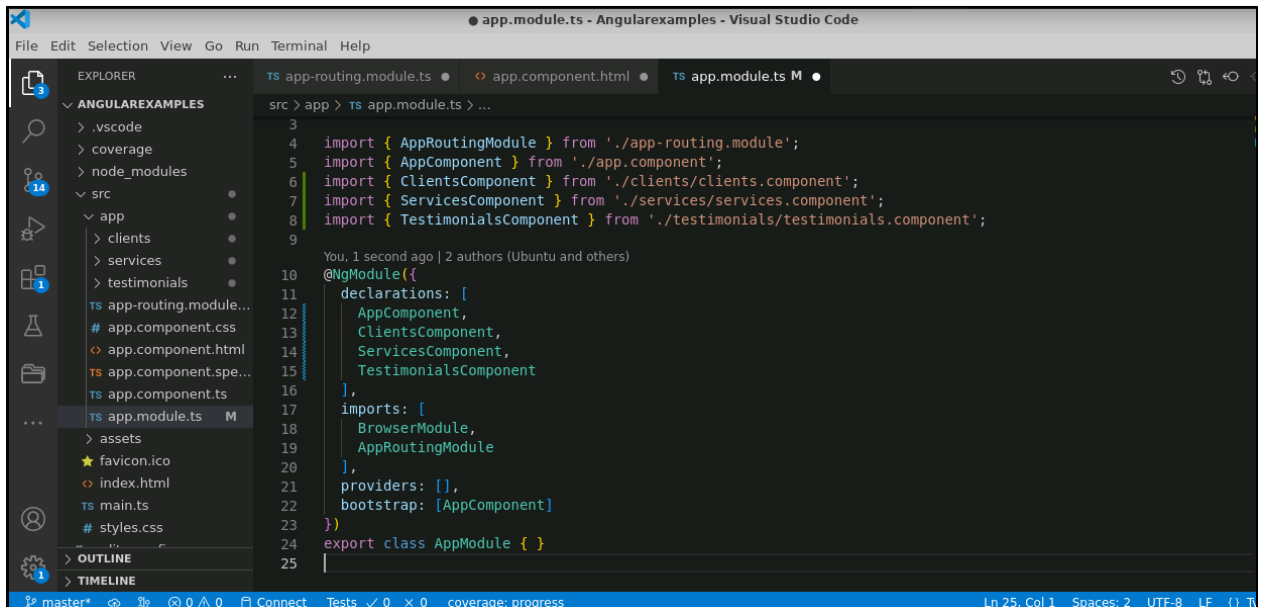
src > app > app.component.html > ...
Go to component | You, 6 seconds ago | 1 author (You)
1 <h1> Routing </h1>
2 <a routerLink="clients">Clients</a>
3 <br>
4 <a routerLink="services">Services</a>
5 <br>
6 <a routerLink="testimonials">Testimonials</a>
7 <router-outlet></router-outlet>
8
  
```

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

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

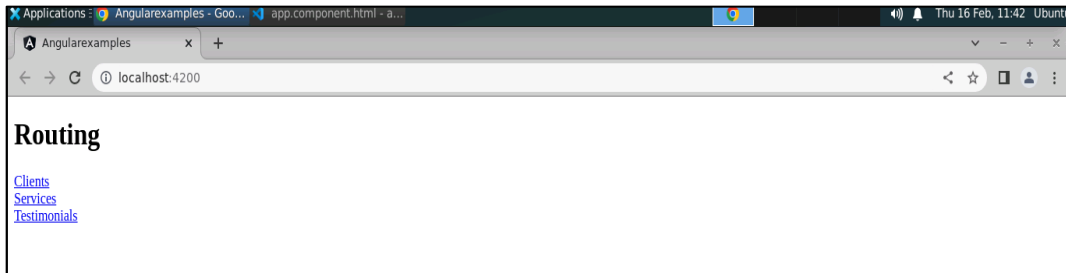
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { ClientsComponent } from './clients/clients.component';
import { ServicesComponent } from './services/services.component';
import { TestimonialsComponent } from
'./testimonials/testimonials.component';

@NgModule({
  declarations: [
    AppComponent,
    ClientsComponent,
    ServicesComponent,
    TestimonialsComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```



Step 2: Running it on browser

2.1 Run the **ng serve** command in the terminal and copy the **localhost address** and paste it opens in the browser:



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

