

ROUTING

In a single-page app, you change what the user sees by showing or hiding portions of the display that correspond to particular components, rather than going out to the server to get a new page. As users perform application tasks, they need to move between the different views that you have defined.

To handle the navigation from one view to the next, you use the Angular Router. The Router enables navigation by interpreting a browser URL as an instruction to change the view.

Ex. Best example of angular routing is angular.io website.

Ex.1)

Step 1 : Create a new project as

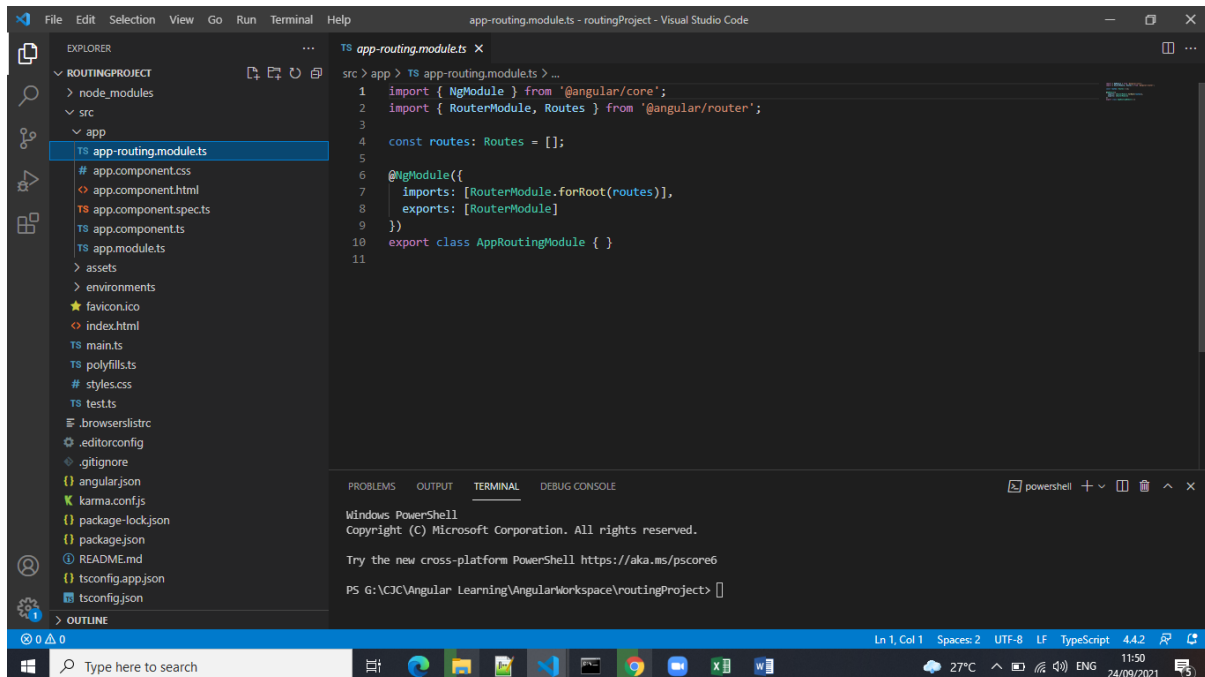
```
ng new routingProject
```

Step 2: select routing as Y and *ENTER*

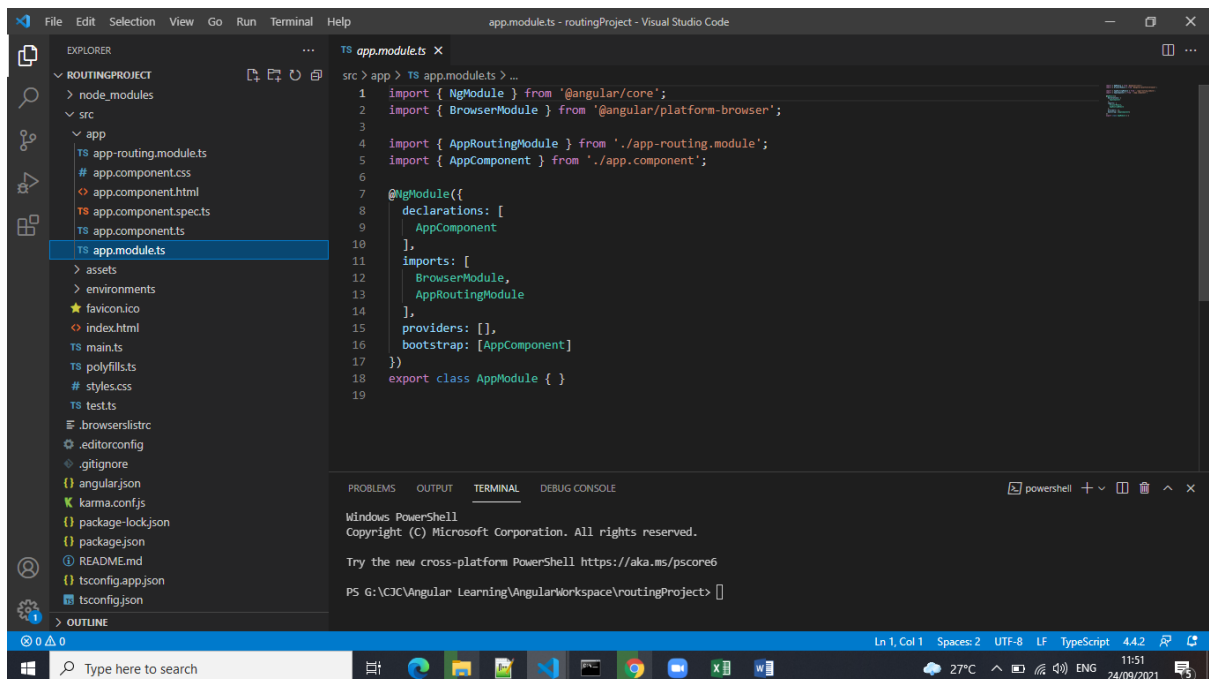
css ENTER

Step 3: This will create a routing module in app module, and gets automatically registered in app module

App-routing.module.ts



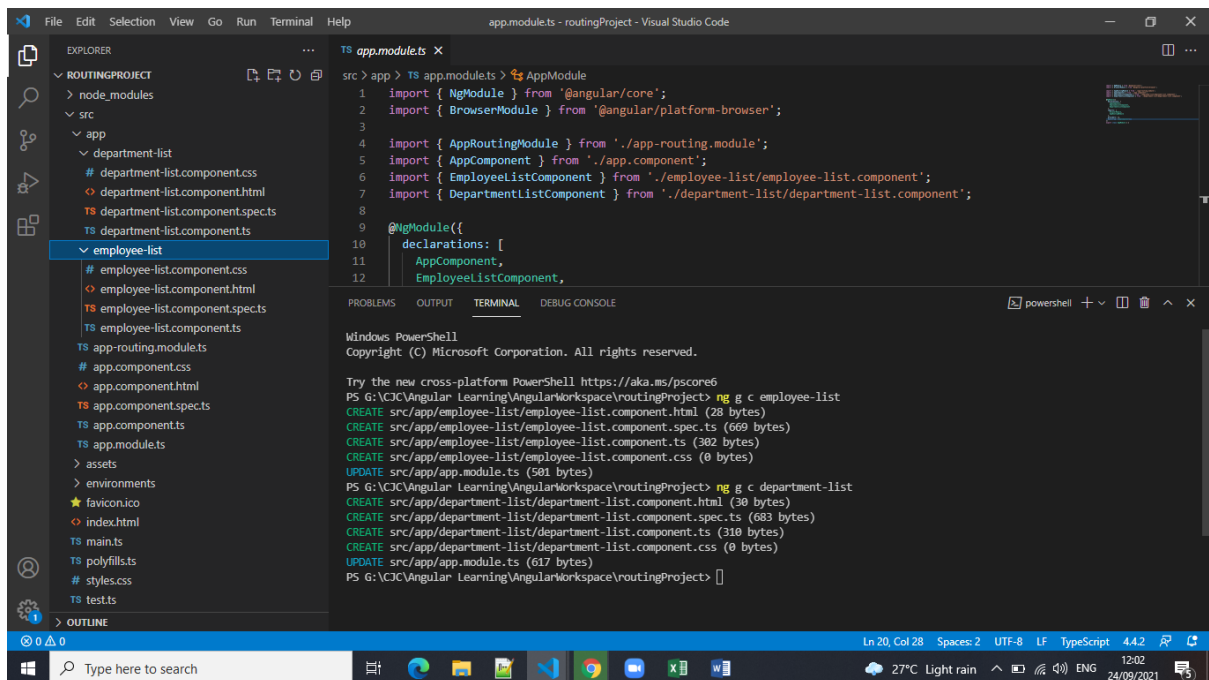
App.module.ts

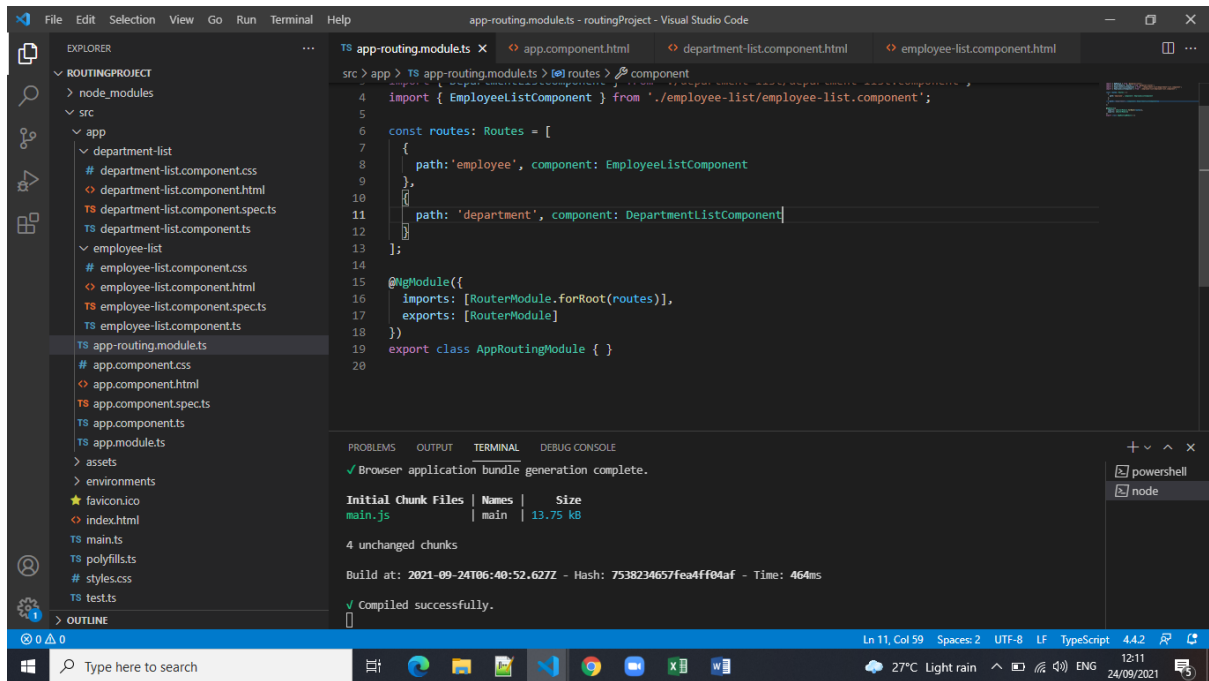
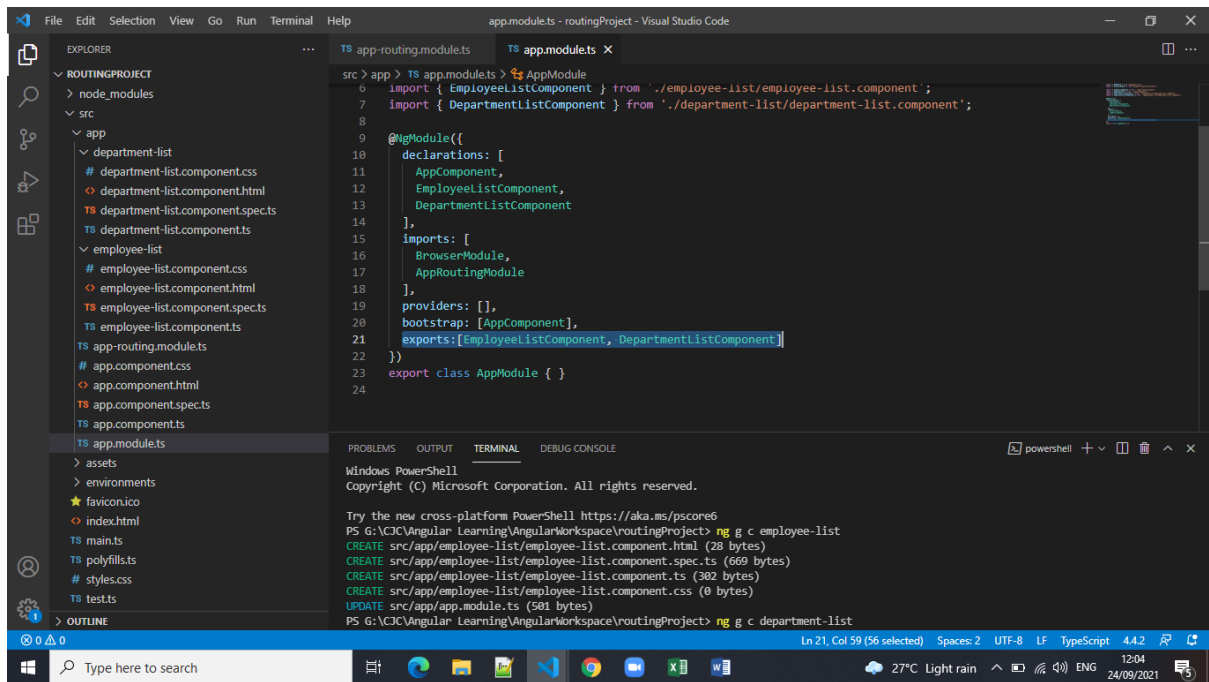


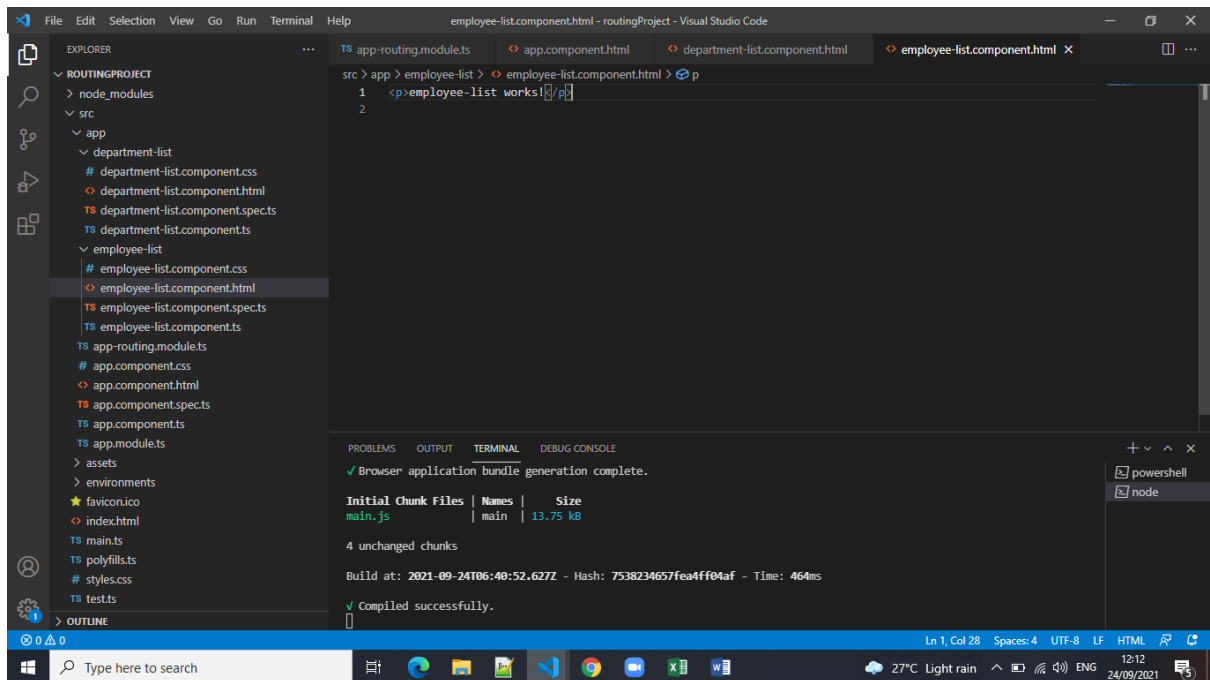
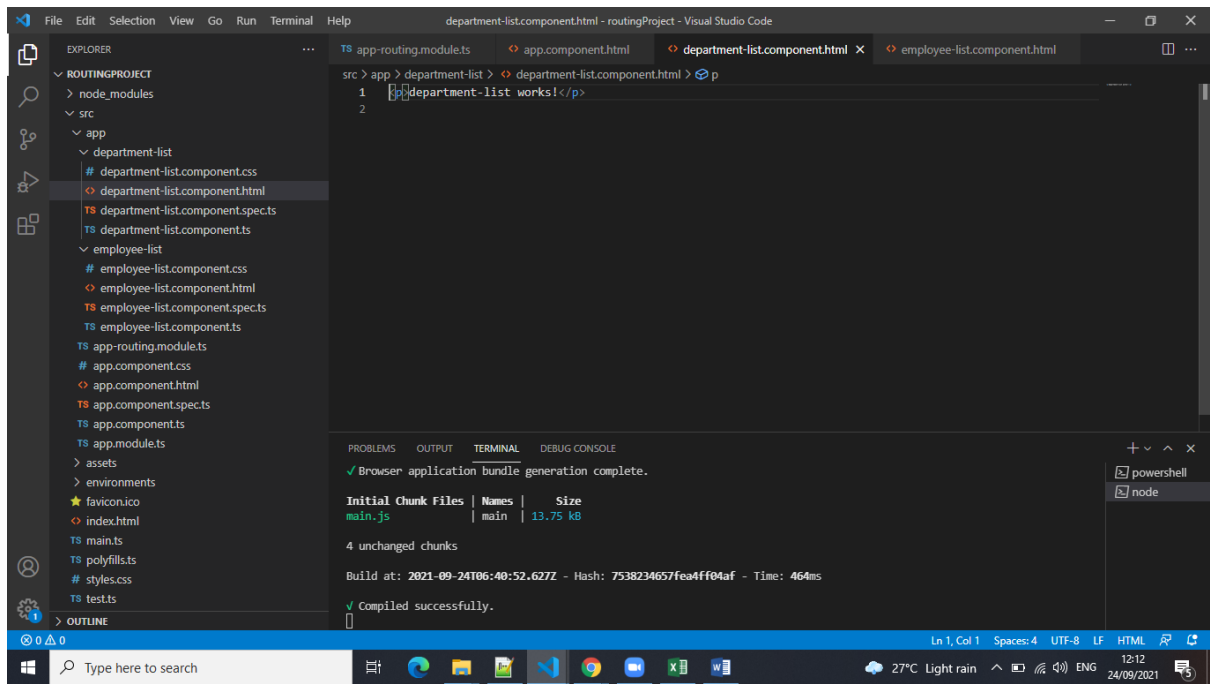
Note: create a zip file of this project, so every time you not need to create new project.

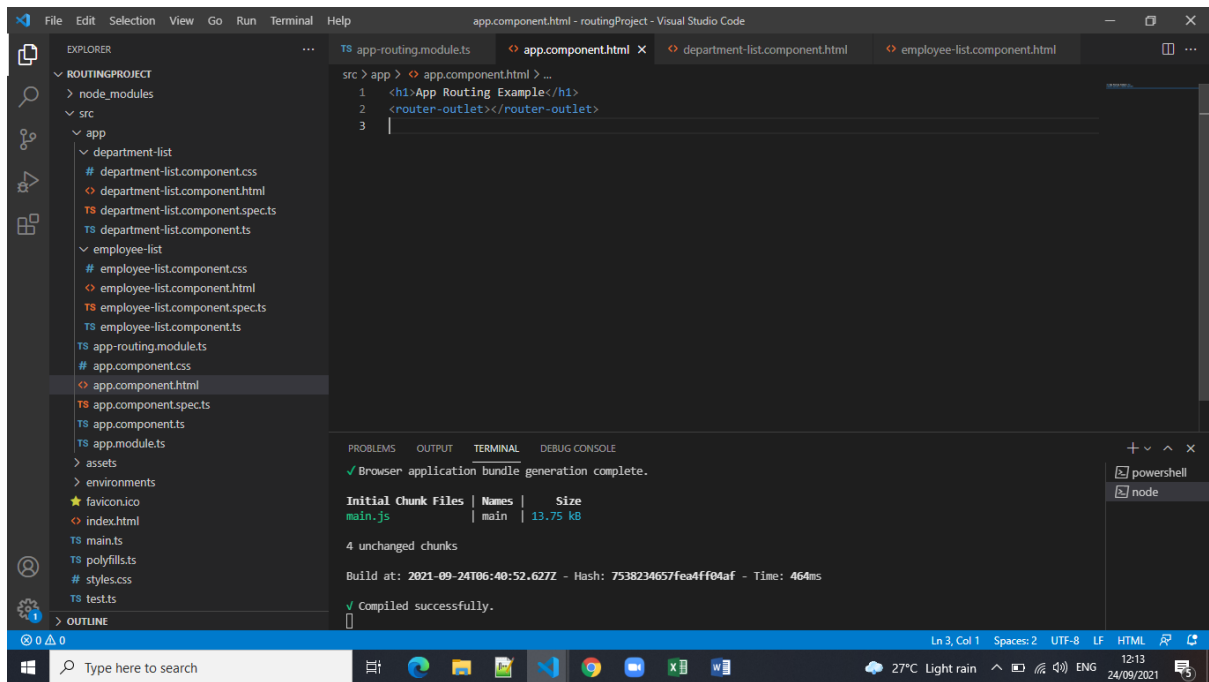
Step 4:

Create two components in app module [we will later discuss about custom module].

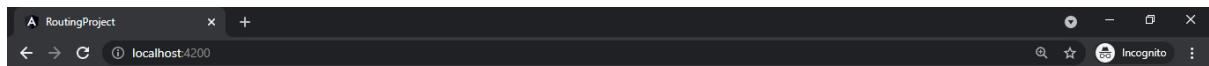






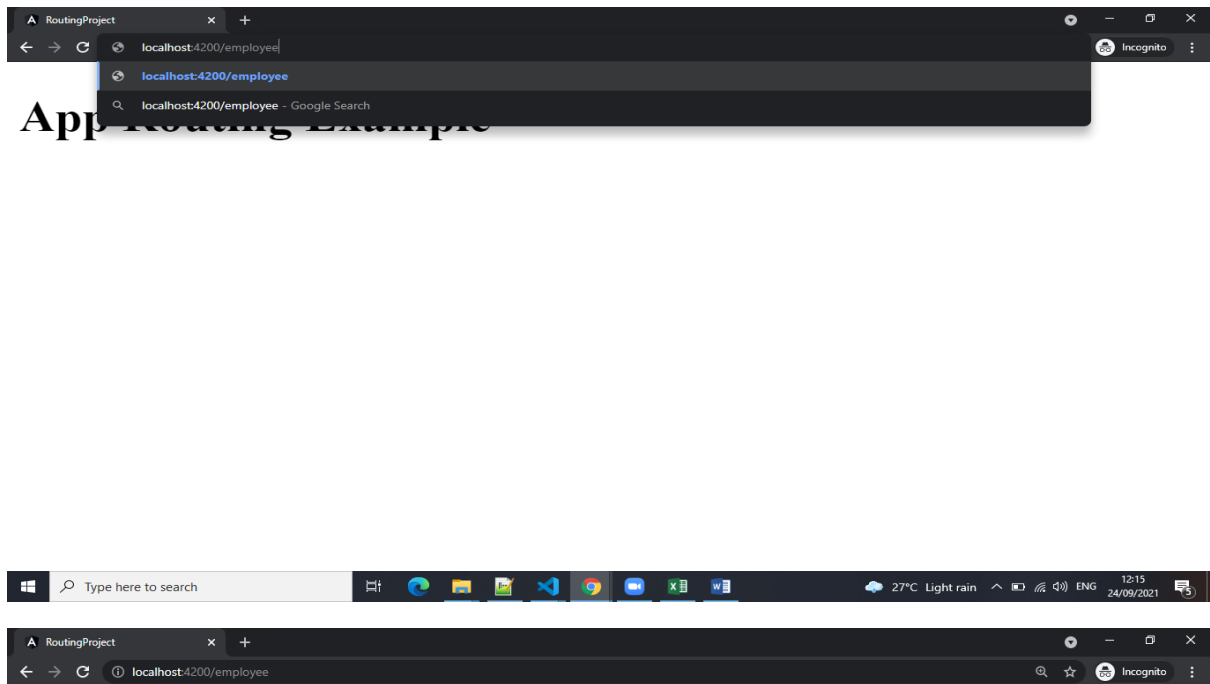


```
<h1>App Routing Example</h1>  
<router-outlet></router-outlet>
```



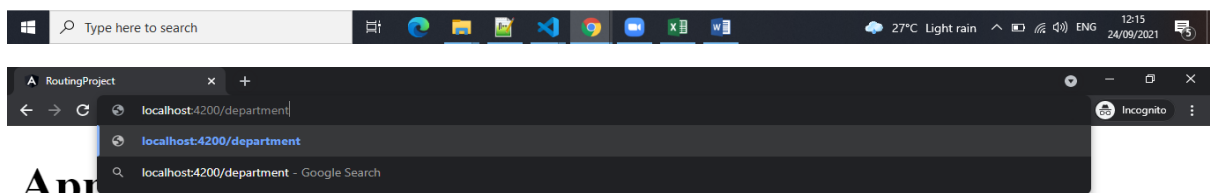
App Routing Example





App Routing Example

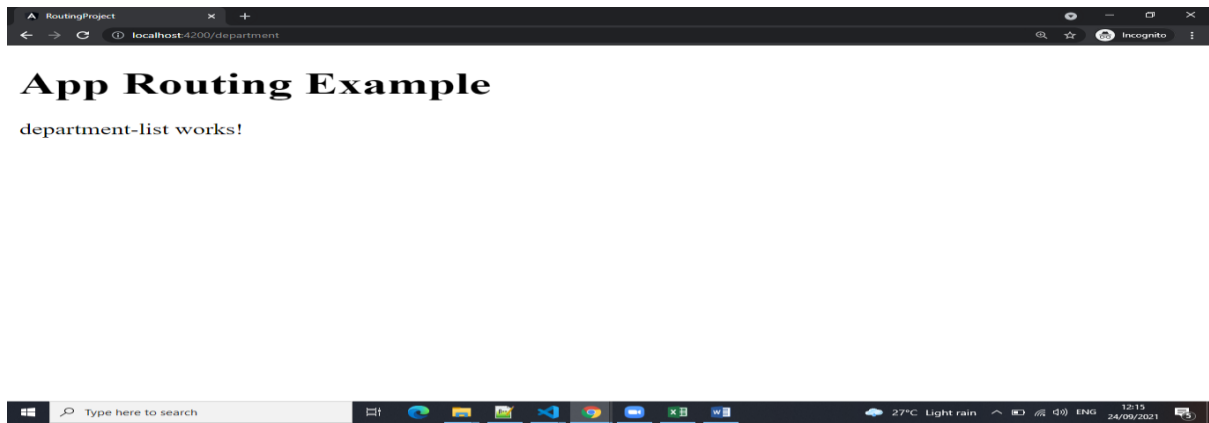
employee-list works!



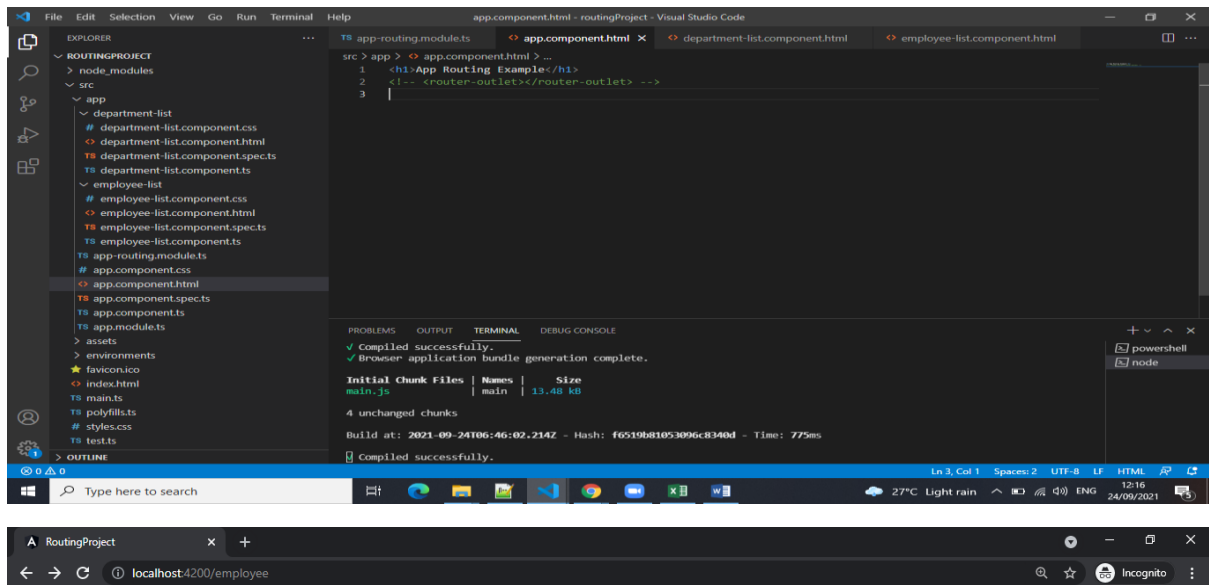
App Routing Example

employee-list works!

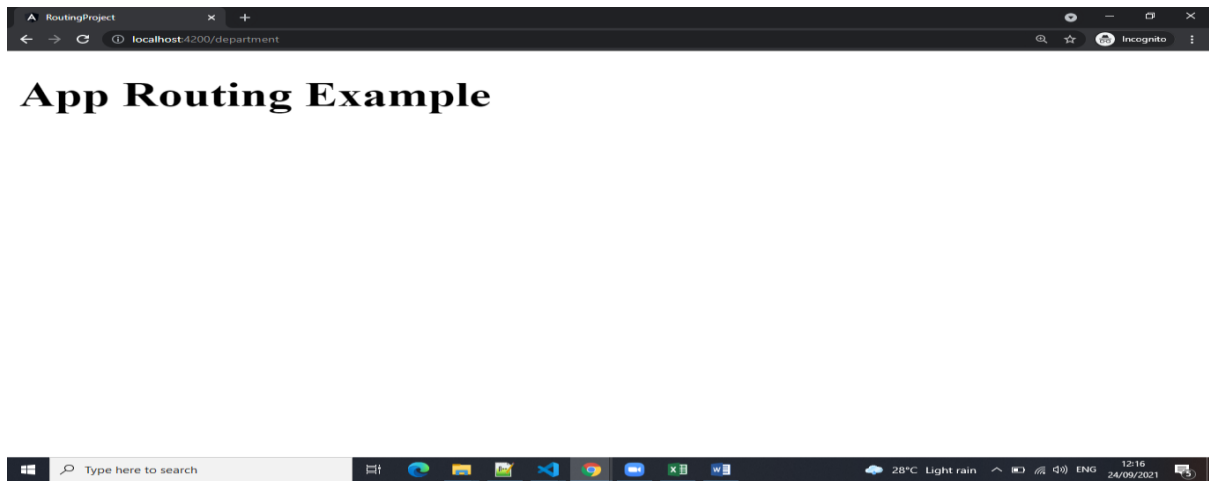




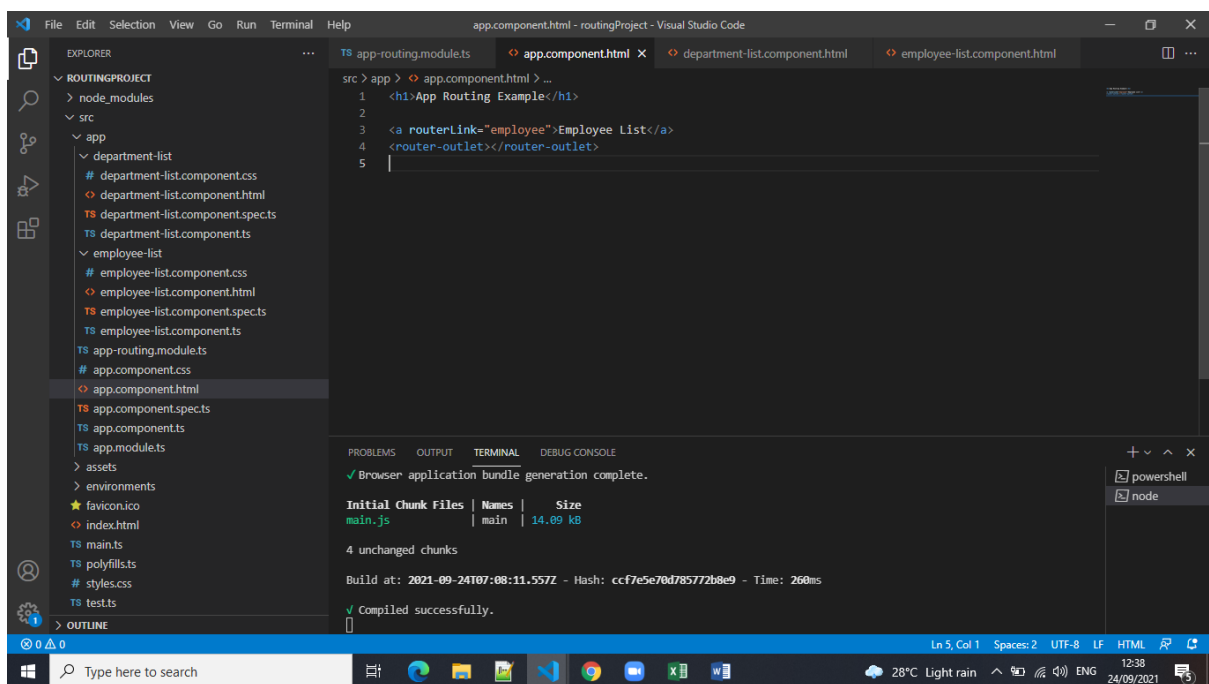
If we remove <router-outlet> then, No data will display of the components



App Routing Example



Routing With Help of Link:

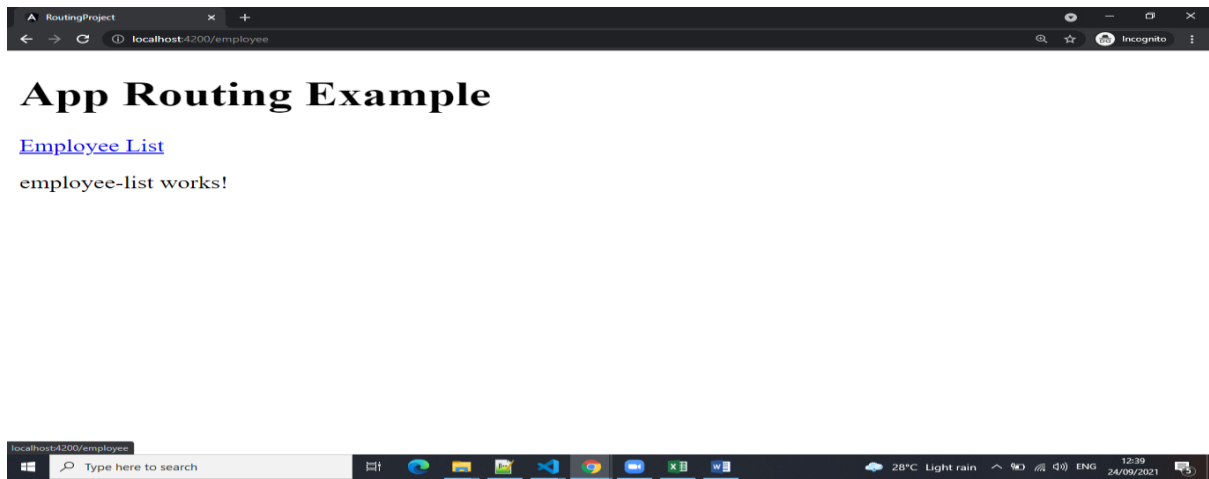


App Routing Example

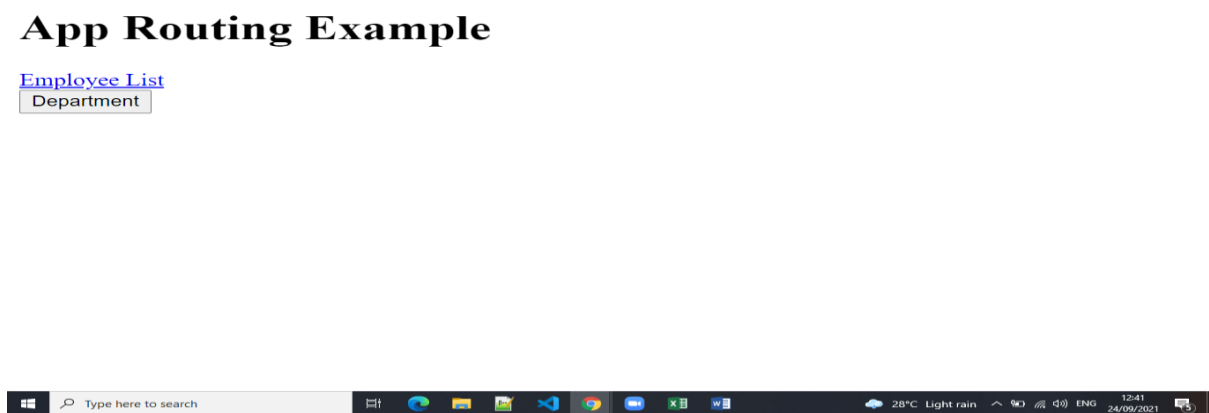
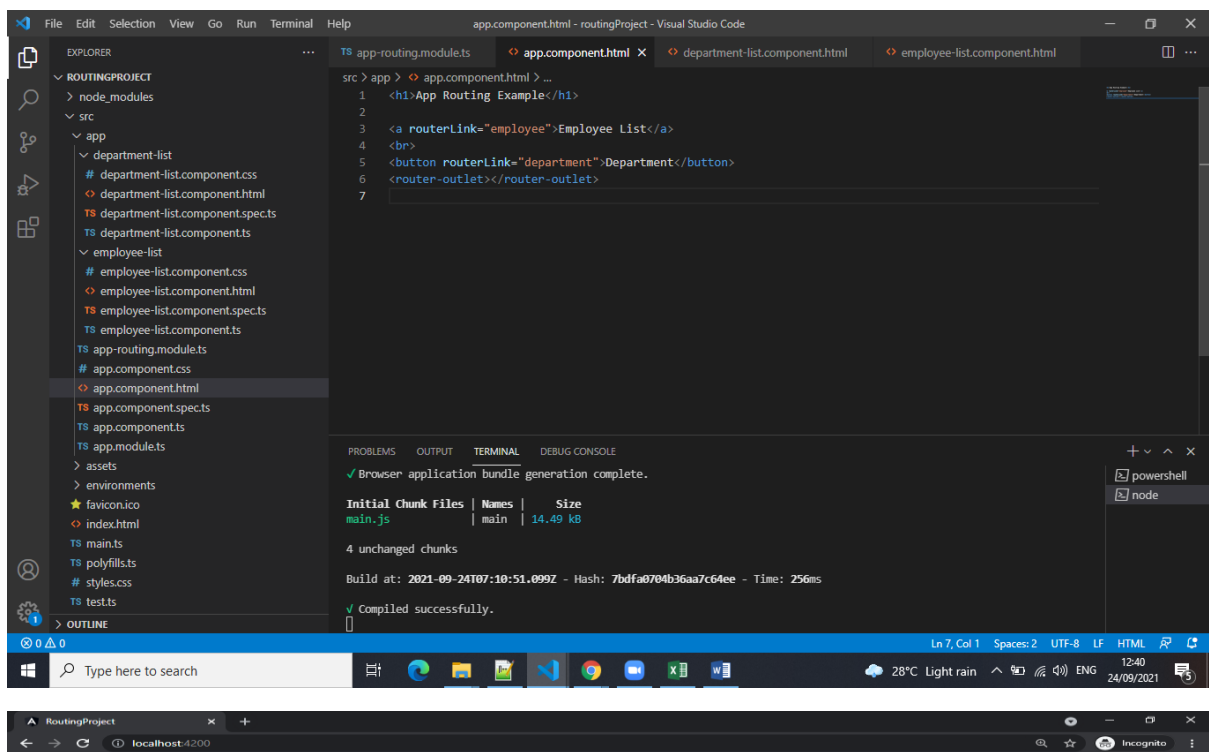
[Employee List](#)



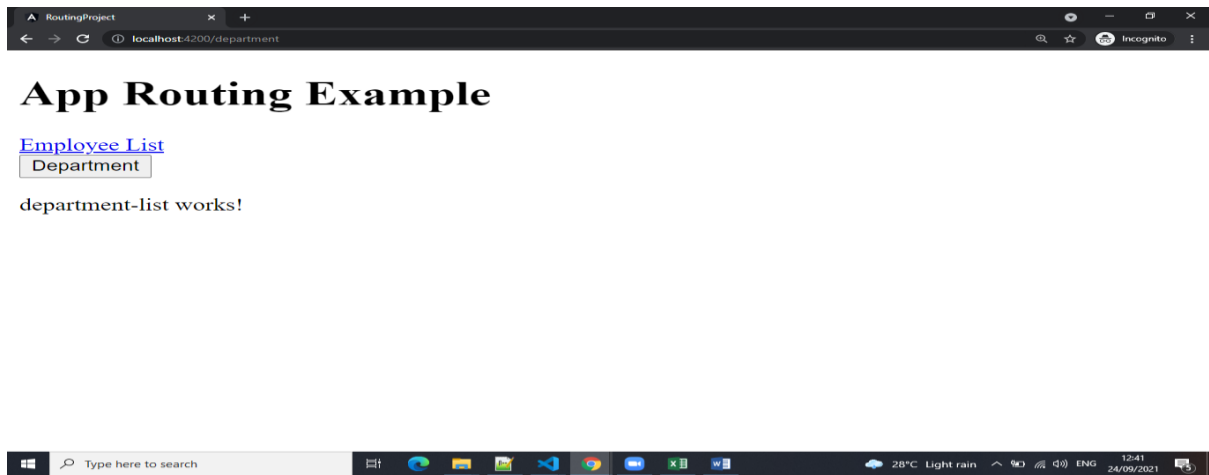
After clicking link..



Routing with Button

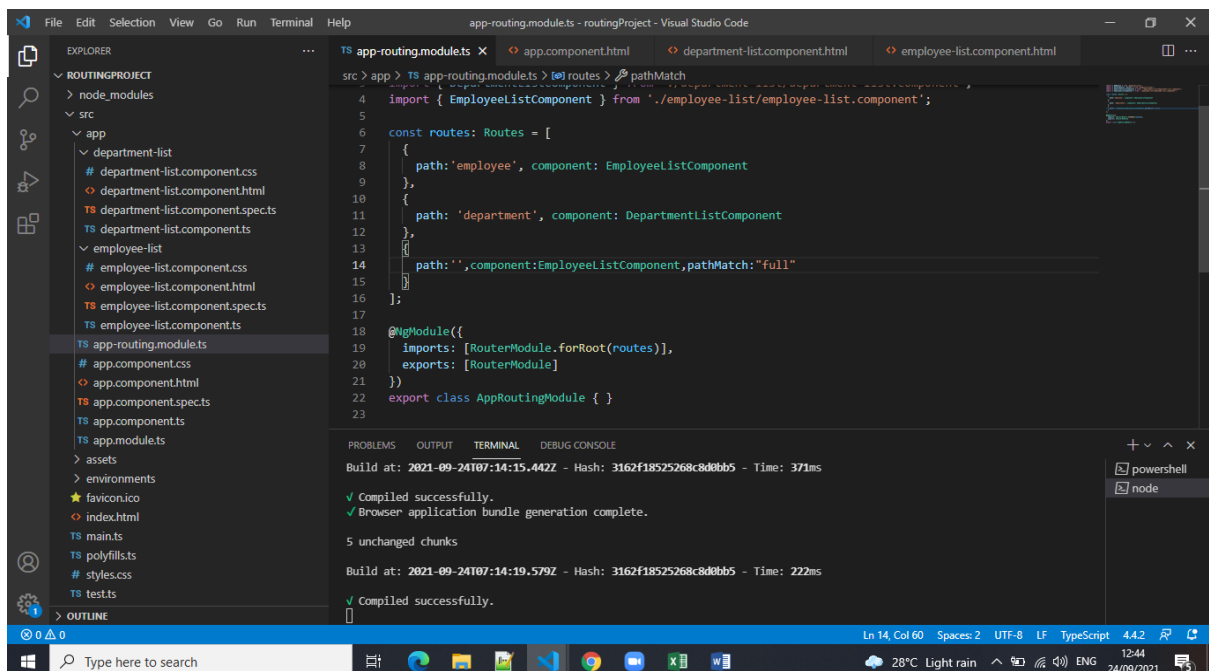


After clicking button...

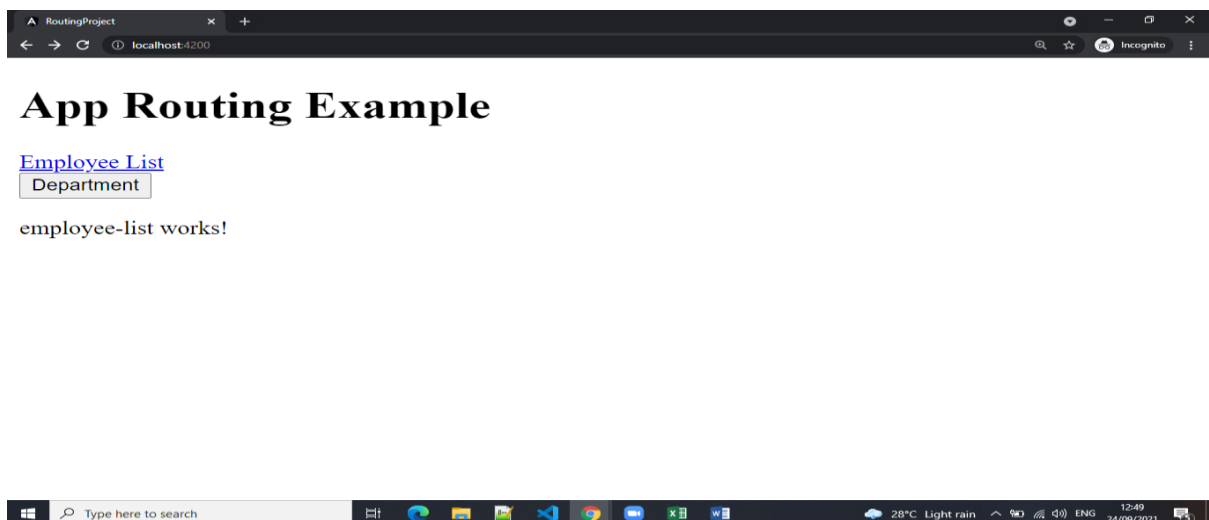


If we want to give landing Page, means give a redirection path on localhost:4200/

Now, landing page will be employee-list component



See, now we have default landing page is

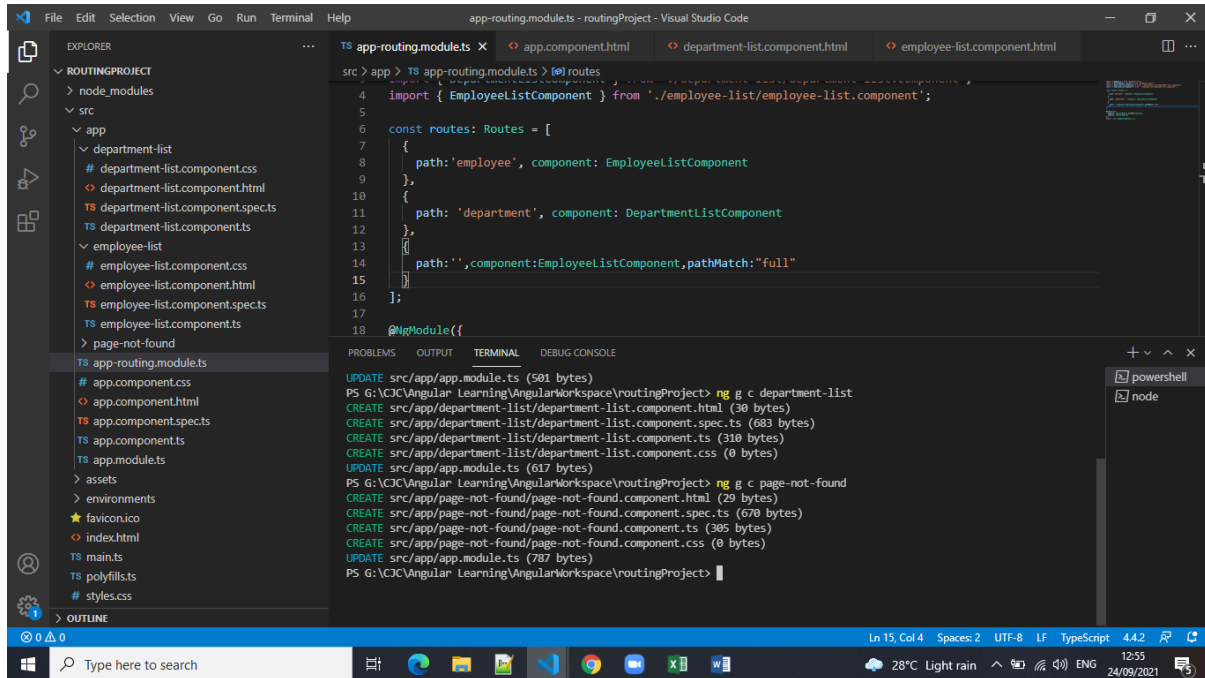


Ex: Now we have to add one PageNotFound error page when, there is wrong URL like,

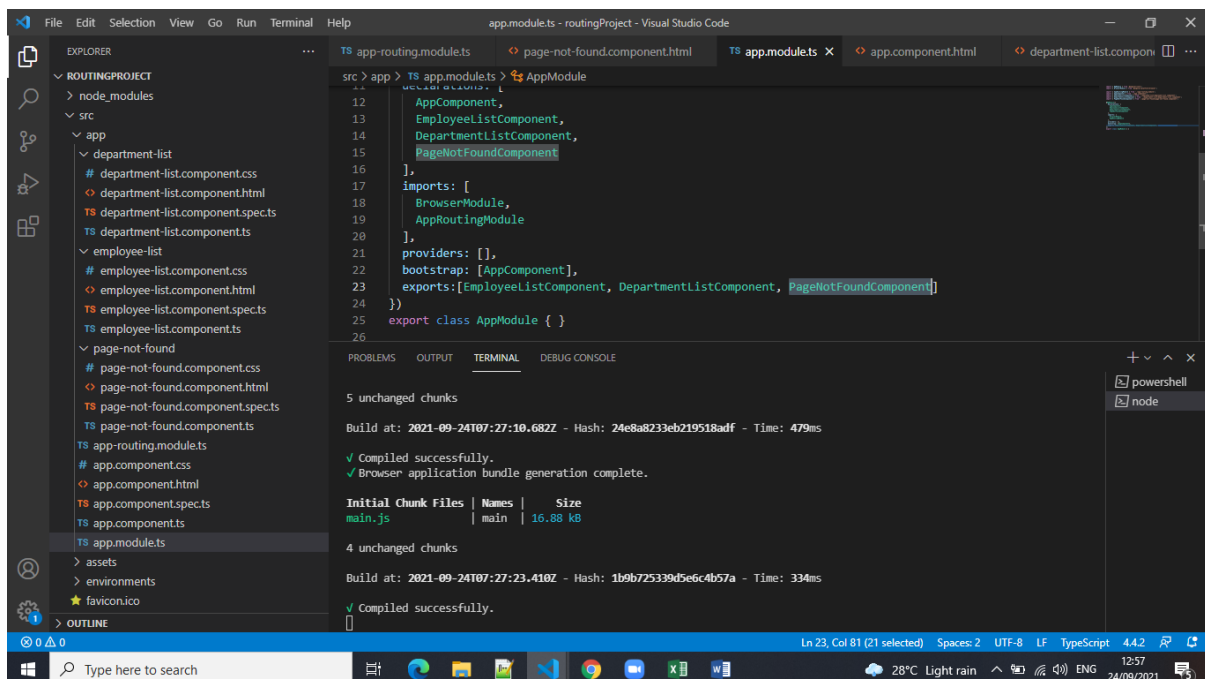
localhost:4200/abc

So, /abc action is not present in our path section of routing, at that time we will show the error page.

Step : Create on new component for pageNotFound



```
src > app > TS app-routing.module.ts > routes
4 import { EmployeeListComponent } from './employee-list/employee-list.component';
5
6 const routes: Routes = [
7   {
8     path: 'employee', component: EmployeeListComponent
9   },
10  {
11    path: 'department', component: DepartmentListComponent
12  },
13  {
14    path: '', component: EmployeeListComponent, pathMatch: "full"
15  }
16 ];
17
18 @NgModule({
```



```
src > app > TS app.module.ts > AppModule
12 AppComponent,
13 EmployeeListComponent,
14 DepartmentListComponent,
15 PageNotFoundComponent
16 ],
17 imports: [
18   BrowserModule,
19   AppRoutingModule
20 ],
21 providers: [],
22 bootstrap: [AppComponent],
23 exports: [EmployeeListComponent, DepartmentListComponent, PageNotFoundComponent]
24 })
25 export class AppModule { }
26
```

5 unchanged chunks

Build at: 2021-09-24T07:27:10.682Z - Hash: 24e8a8233eb219518adf - Time: 479ms

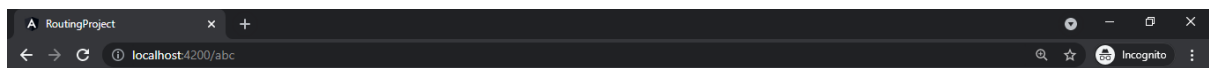
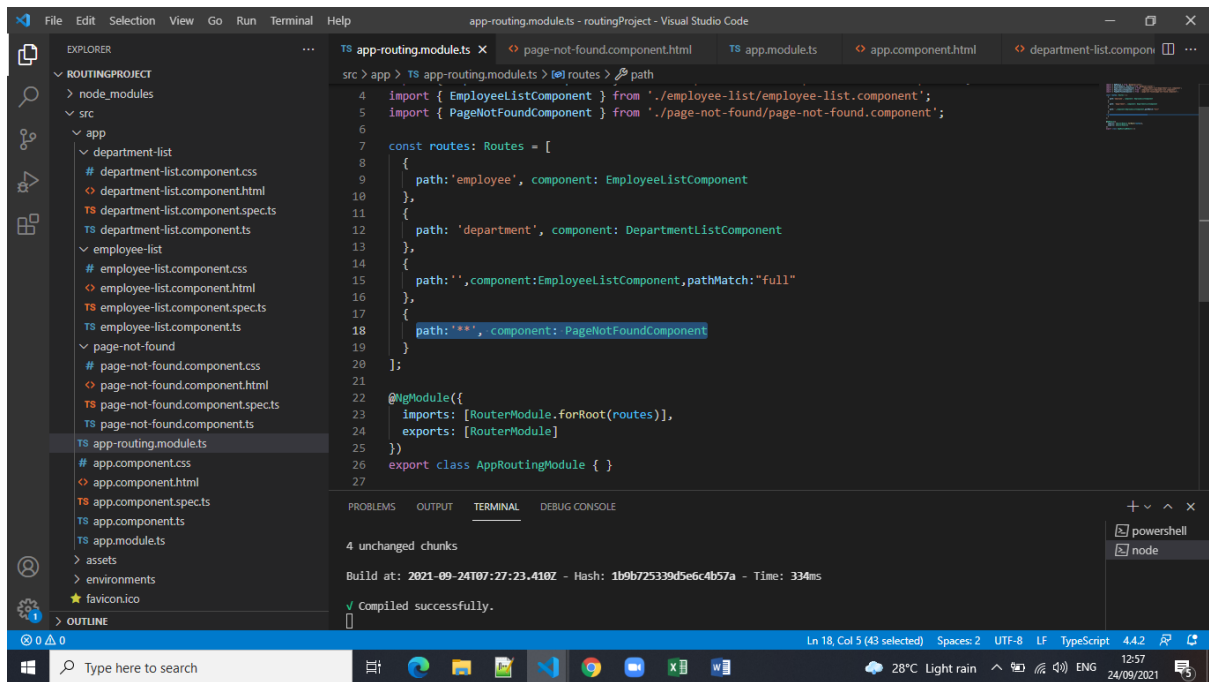
✓ Compiled successfully.
✓ Browser application bundle generation complete.

Initial Chunk Files	Names	Size
main.js	main	16.88 kB

4 unchanged chunks

Build at: 2021-09-24T07:27:23.410Z - Hash: 1b9b725339d5e6c4b57a - Time: 334ms

✓ Compiled successfully.



App Routing Example

[Employee List](#)

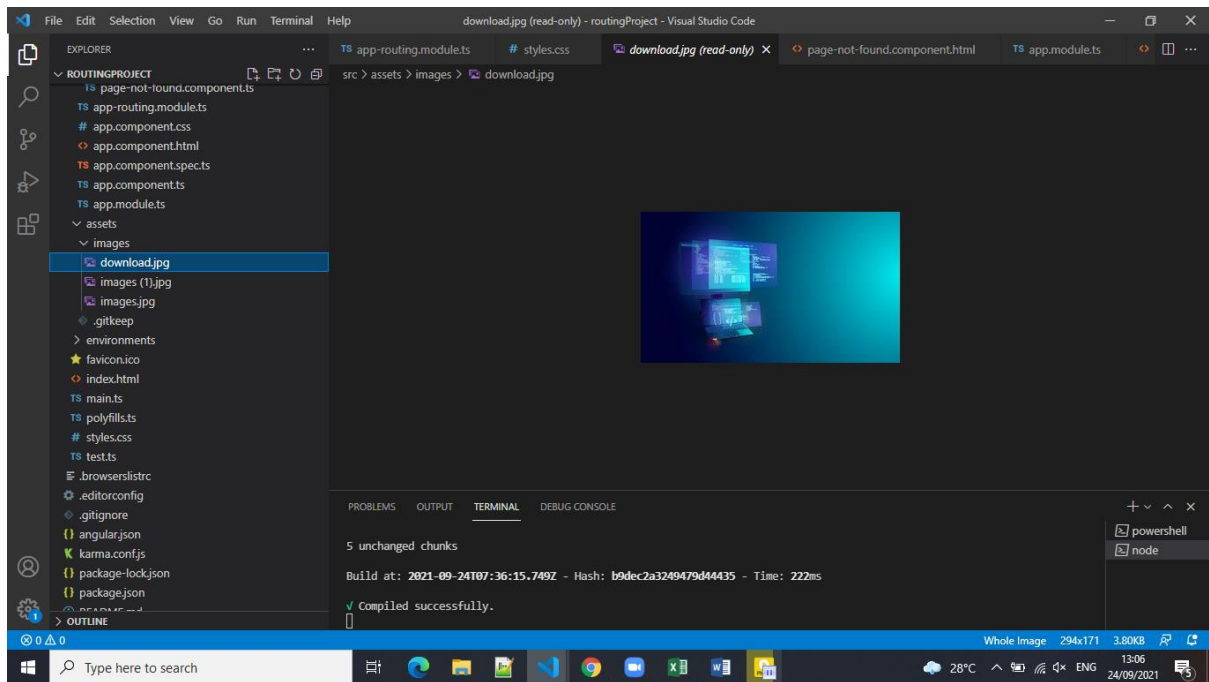
Department

OPPS.....! PAGE is not found in requested URL

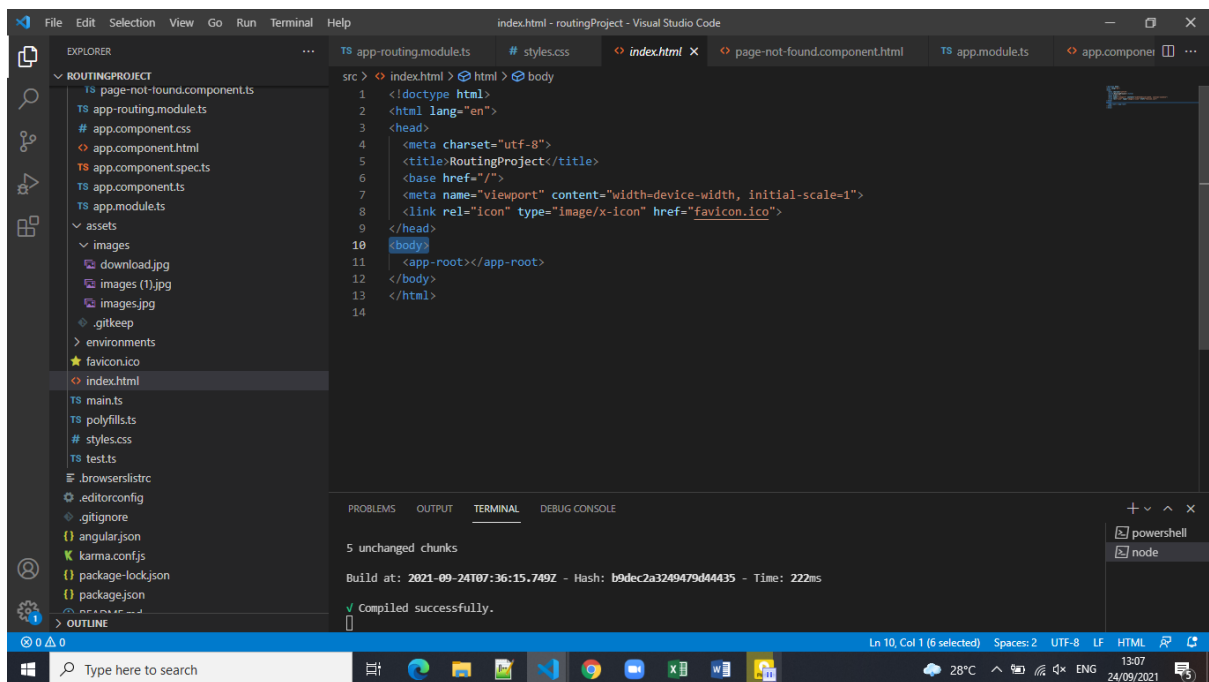


To add image on background of main app module:

Step 1 : we are not able to paste any image directly in asset folder in VSCode IDE. So go to folder location of project → go to asset folder → create one folder as IMAGES → paste the image in that folder. It looks like,



We have to insert image for background of main app module, so we have to go to index.html



And set css for <body>

In styles.css

