**Lesson18 Routing with using Routing**

**Notes:-**

**1-Routing: - is used to navigation from web page to another page**

**2-Routing is used to reduce the size page when navigate from web page to another in traditional way because in the traditional way it reload the whole page so it use high resources**

**While the routing in angular (single web application), it will reload the component that not used in the main page**

Page 3

Page 2

Page 1

Page 1

Page 3

Page 2

**We see that in the traditional way , it will reload the whole page even you apply the master page , it will reload the whole page**

**While with using angular the operation will happen as following**

Index

Page3

Page 2

Page 1

Page 1

Page 3

Page 2

**It will reload the Component it different when navigate from page to another**

**Apply Routing in Angular Project**

**1-in the app.module we apply the Routing in out project**

**import { BrowserModule } from '@angular/platform-browser';**

**//we will put the NgModule on the app\_module**

**import { NgModule } from '@angular/core';**

**//we will put the FormsModule on the app\_module**

**import { FormsModule} from '@angular/forms';**

**import { HttpModule } from '@angular/http';**

**import { AppComponent } from './app.component';**

**//we see that we added the HttpClientModule in the app.module.ts**

**import { BrowserAnimationsModule } from '@angular/platform-browser/animations';**

**import { EmployeeListComponent } from './Components/employee-list/employee-list.component';**

**import {EmployeeServiceService} from './Services/employee-service.service';**

**import { EmployeesComponent } from './Components/employees/employees.component';**

**import { EmployeeComponent } from './Components/employee/employee.component';**

**import { ToastrModule } from 'ngx-toastr';**

**import { ProfileComponent } from './Components/profile/profile.component';**

**//we added the Routing in out application**

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

**//we make Navbar Component to access the page and link it with the Routing**

**import { NavbarEmployeeComponent } from './Components/navbar-employee/navbar-employee.component';**

**//this variable will carry the path with the Routing**

**const appRoutes:Routes = [**

**{path:'',component:EmployeesComponent},**

**{path:'Profile',component:ProfileComponent}**

**];**

**@NgModule({**

**declarations: [**

**AppComponent,**

**EmployeeListComponent,**

**EmployeesComponent,**

**EmployeeComponent,**

**ProfileComponent,**

**NavbarEmployeeComponent],**

**imports: [**

**BrowserModule,**

**BrowserAnimationsModule,**

**HttpModule,**

**FormsModule,**

**//we apply the Routing at the application level**

**RouterModule.forRoot(appRoutes),**

**ToastrModule.forRoot()**

**],**

**providers: [EmployeeServiceService],**

**bootstrap: [AppComponent]**

**})**

**export class AppModule { }**

**2- we will create navbar component and link it with the hyperlink**

<nav class="navbar navbar-inverse">

<div class="container-fluid">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a class="navbar-brand" href="#">Compnay Global</a></div>

<div class="collapse navbar-collapse" id="myNavbar">

<ul class="nav navbar-nav">

<li class="active"><a href="#">Home</a></li>

<li><a href="/" >Employees Page</a></li>

<li><a href="/Profile">Profile Page</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li><a href="#"><span class="glyphicon glyphicon-user"></span> Sign Up</a></li>

<li><a href="#"><span class="glyphicon glyphicon-log-in"></span> Login</a></li>

</ul>

</div></div></nav>

**3-we link the navbar with the main component**

<app-navbar-employee></app-navbar-employee>

//we see that the below selector will reload the path “” 🡺 Employess

<router-outlet></router-outlet>

**Passing Parameter with using Routing**

**1-in the app.module we will write the following code**

const appRoutes:Routes = [

{path:'',component:EmployeesComponent},

{path:'departments',component:DepartmentsComponent},

{path:'profile/:id',component:ProfileComponent}

];

**2-in the component Called Employee list we update the code as following**

<p style="color: red;">{{empService.errorMsg}}</p>

<table class="table table-sm table-hover">

<tr \*ngFor="let employee of empService.Employees">

<td>{{employee.FirstName}} - {{employee.LastName}}</td>

<td>{{employee.EmpCode}}</td>

<td>

<a class="btn" (click)="showForEdit(employee.EmployeeID)">

<i class="fa fa-pencil-square-o"></i>

</a>

<a class="btn" href="/profile/{{employee.EmployeeID}}">

<i class="fa fa-file"></i>

</a>

<a class="btn text-danger" (click)="onDelete(employee.EmployeeID)">

<i class="fa fa-trash-o"></i>

</a>

</td>

</tr>

</table>

**3-on the Profile.html we will write the following code**

<div class="container">

<h2>Employee Info</h2>

<div class="form-group">

<label for="FnameLbl">First Name:</label>

<label class="form-control" name="FirstName">{{empService.selectedEmployee.FirstName}}</label>

</div>

<div class="form-group">

<label for="LnameLbl">Last Name:</label>

<label class="form-control" name="LastName">{{empService.selectedEmployee.LastName}}</label>

</div>

<div class="form-group">

<label for="EmpCodeLbl">Employee Code:</label>

<label class="form-control" name="EmployeeCode">{{empService.selectedEmployee.EmpCode}}</label>

</div>

<div class="form-group">

<label for="PositionLbl">Position:</label>

<label class="form-control" name="Position">{{empService.selectedEmployee.Position}}</label>

</div>

<div class="form-group">

<label for="OfficeLbl">Office:</label>

<label class="form-control" name="Office">{{empService.selectedEmployee.Office}}</label>

</div>

</div>

**4-on the code behind we will write the following code**

import { Component, OnInit } from '@angular/core';

//we will activate the Router with using parameter

import {Router,ActivatedRoute,Params} from '@angular/router';

import {EmployeeServiceService} from '../../Services/employee-service.service';

import { EmployeeModule } from '../../Services/employee-module';

import { DELEGATE\_CTOR } from '@angular/core/src/reflection/reflection\_capabilities';

@Component({

selector: 'app-profile',

templateUrl: './profile.component.html',

styleUrls: ['./profile.component.css']

})

export class ProfileComponent implements OnInit {

ID:any;

//we will using the constructor with using the route as parameter in the constructor and then assign the parameter in the variable

constructor(private empService:EmployeeServiceService,private router:Router,private route:ActivatedRoute){

debugger;

this.route.params.subscribe((params:Params) => {

this.ID = params.id;

this.showForEdit(this.ID);

})}

showForEdit(Empid:number) {

this.empService.GetPerson(Empid).subscribe(data =>

this.empService.selectedEmployee = data as EmployeeModule

);

debugger;}

ngOnInit() {}}