**Stock Market Charting UIUX (Phase1)**

**ANGULAR**

**Index.html**

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <title>StockCharts</title>

  <base href="/">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="icon" type="image/x-icon" href="favicon.ico">

</head>

<body>

  <app-root></app-root>

</body>

</html>

**Style.css**

\*{

    padding:0;

    margin:0;

    box-sizing: border-box;

}

main{

    height:100vh;

}

.no-gutters {

    margin-right: 0;

    margin-left: 0;

    /\* > .col,

    > [class\*="col-"] {

      padding-right: 0;

      padding-left: 0;

    } \*/

  }

**app-routing.module.ts**

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

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

import { SignUpComponent } from './sign-up/sign-up.component';

import { HomeComponent } from './home/home.component';

import { LoginComponent } from './login/login.component';

import { MemberComponent } from './member/member.component';

import { AdminLandingPageComponent } from './admin-landing-page/admin-landing-page.component';

import { UpdateUserComponent } from './update-user/update-user.component';

import { DocumentUploadComponent } from './document-upload/document-upload.component';

import { CreateNewCompanyComponent } from './create-new-company/create-new-company.component';

import { CompanyListComponent } from './company-list/company-list.component';

import { ContactUsComponent } from './contact-us/contact-us.component';

import { AboutUsComponent } from './about-us/about-us.component';

import { UserLandingPageComponent } from './user-landing-page/user-landing-page.component';

import { CompareCompanyComponent } from './compare-company/compare-company.component';

import { CompareSectorsComponent } from './compare-sectors/compare-sectors.component';

import { ManageExchangeComponent } from './manage-exchange/manage-exchange.component';

import { ManageIpoComponent } from './manage-ipo/manage-ipo.component';

import { AddStockExchangeComponent } from './add-stock-exchange/add-stock-exchange.component';

import { AddIpoComponent } from './add-ipo/add-ipo.component';

import { LoginUserComponent } from './login-user/login-user.component';

const routes: Routes = [

  { path: '', redirectTo: 'home', pathMatch: 'full' },

  { path: 'home', component: HomeComponent },

  { path: 'about', component: AboutUsComponent },

  { path: 'contact', component: ContactUsComponent },

  { path: 'sign\_up', component: SignUpComponent },

  { path: 'login', component: LoginComponent },

  { path: 'login-user', component: LoginUserComponent },

  { path: 'user-page', component: UserLandingPageComponent },

  { path: 'compare-company', component: CompareCompanyComponent },

  { path: 'compare-sectors', component: CompareSectorsComponent },

  { path: 'manage-exchange', component: ManageExchangeComponent },

  { path: 'manage-ipo', component: ManageIpoComponent },

  { path: 'users', component: MemberComponent },

  { path: 'admin', component: AdminLandingPageComponent },

  { path: 'update-user', component: UpdateUserComponent },

  { path: 'import-data', component: DocumentUploadComponent },

  { path: 'manage-company', component: CompanyListComponent },

  { path: 'add-company', component: CreateNewCompanyComponent },

  { path: 'add-exchange', component: AddStockExchangeComponent },

  { path: 'add-ipo', component: AddIpoComponent }

];

@NgModule({

  imports: [RouterModule.forRoot(routes)],

  exports: [RouterModule]

})

export class AppRoutingModule { }

**app.component.html**

<!-- header -->

<header class="bg-dark">

    <div class="w-100">

        <ul class="nav  justify-content-center">

            <li class="nav-item">

                <a href="#" class="navbar-brand ">

                    <img src="../assets/images/logo.png" width="90" height="90" alt="logo">

                </a>

            </li>

            <li class="nav-item">

                <p class="display-3 text-info">STOCK CHARTS</p>

            </li>

        </ul>

    </div>

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark sticky-top">

        <div class="collapse navbar-collapse ">

            <ul class="navbar-nav mr-auto">

                <li class="nav-item"><a [routerLink]="['home']" class="nav-link active">HOME</a></li>

                <li class="nav-item"><a [routerLink]="['contact']" class="nav-link">CONTACT US</a></li>

                <li class="nav-item"><a [routerLink]="['about']" class="nav-link">ABOUT US</a></li>

            </ul>

        </div>

    </nav>

</header>

<!-- header -->

<main>

    <div \*ngIf="isAdmin">

        <app-admin-landing-page></app-admin-landing-page>

    </div>

    <div \*ngIf="!isAdmin">

        <router-outlet></router-outlet>

    </div>

</main>

<!-- Footer -->

<footer class="page-footer font-small blue bg-dark text-light">

    <div class="footer-copyright text-center py-3">&copy; 2020 Copyright:

        <a href="#">Stock Charts</a>

    </div>

</footer>

<!-- Footer -->

**app.module.ts**

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

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

import { ReactiveFormsModule} from '@angular/forms';

import { AppRoutingModule } from './app-routing.module';

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

import { SignUpComponent } from './sign-up/sign-up.component';

import { HomeComponent } from './home/home.component';

import { LoginComponent } from './login/login.component';

import { AdminLandingPageComponent } from './admin-landing-page/admin-landing-page.component';

import { UserLandingPageComponent } from './user-landing-page/user-landing-page.component';

import { DocumentUploadComponent } from './document-upload/document-upload.component';

import { MemberComponent } from './member/member.component';

import { HttpClientModule } from '@angular/common/http';

import { UpdateUserComponent } from './update-user/update-user.component';

import { CreateNewCompanyComponent } from './create-new-company/create-new-company.component';

import { CompanyListComponent } from './company-list/company-list.component';

import { ContactUsComponent } from './contact-us/contact-us.component';

import { AboutUsComponent } from './about-us/about-us.component';

import { CompareCompanyComponent } from './compare-company/compare-company.component';

import { CompareSectorsComponent } from './compare-sectors/compare-sectors.component';

import { ManageExchangeComponent } from './manage-exchange/manage-exchange.component';

import { ManageIpoComponent } from './manage-ipo/manage-ipo.component';

import { AddStockExchangeComponent } from './add-stock-exchange/add-stock-exchange.component';

import { AddIpoComponent } from './add-ipo/add-ipo.component';

import { LoginUserComponent } from './login-user/login-user.component';

@NgModule({

  declarations: [

    AppComponent,

    SignUpComponent,

    HomeComponent,

    LoginComponent,

    AdminLandingPageComponent,

    UserLandingPageComponent,

    DocumentUploadComponent,

    MemberComponent,

    UpdateUserComponent,

    CreateNewCompanyComponent,

    CompanyListComponent,

    ContactUsComponent,

    AboutUsComponent,

    CompareCompanyComponent,

    CompareSectorsComponent,

    ManageExchangeComponent,

    ManageIpoComponent,

    AddStockExchangeComponent,

    AddIpoComponent,

    LoginUserComponent

  ],

  imports: [

    BrowserModule,

    AppRoutingModule,

    HttpClientModule,

    ReactiveFormsModule

  ],

  providers: [],

  bootstrap: [AppComponent]

})

export class AppModule { }

**App.component.ts**

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

@Component({

  selector: 'app-root',

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

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'StockCharts';

}

**Home Component**

**home.component.html**

<!-- body -->

<main class="main">

  <div class="container">

    <div class="text-center ">

      <h1 class="display-2 ">Welcome to StockCharts</h1>

    </div>

    <br>

    <div class="row ">

      <div class="col-4">

      </div>

      <div class="w-25 float-right border p-3 col-4 bg-light shadow rounded ">

        <a class="btn btn-info btn-lg btn-block my-5 " [routerLink]="['/login']">ADMIN</a>

        <a class="btn btn-primary btn-lg btn-block my-5" [routerLink]="['/login']">USER</a>

      </div>

    </div>

  </div>

</main>

<!-- body -->

**Home.component.ts**

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

@Component({

  selector: 'app-home',

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

  styleUrls: ['./home.component.css']

})

export class HomeComponent implements OnInit {

  constructor() { }

  ngOnInit() {

  }

}

**Models:**

**User.ts**

export class User{

    id:String;

    username: String;

    password : String;

    userType: String;

    email: String;

    phone: number;

    confirm:boolean;

}

**Company.ts**

export class Company {

    id: String;

    companyName: String;

    CEOName: String;

    turnOver: number;

    boardOfDirectors: String;

    sector: String;

    description: String;

    IPOName: String;

}

**Exchange.ts**

export class Exchange {

    id: String;

    stockExchangeName: String;

    breif: String;

    address: String;

    remarks: String;

}

**Ipo.ts**

export class Ipo{

    id:String;

    companyName: String;

    stockExchange : String;

    pricePerShare: number;

    noOfShares: number;

    openDate: Date;

}

**Services:**

**User-service.service.ts**

import { Injectable } from '@angular/core';

import { Observable } from 'rxjs';

import { User } from '../models/user';

import { HttpClient } from '@angular/common/http';

@Injectable({

  providedIn: 'root'

})

export class UserServiceService {

  httpUrl = "http://localhost:3000/users/";

  constructor(private httpClient: HttpClient) { }

  getUserData(): Observable<User[]> {

    return this.httpClient.get<User[]>(this.httpUrl);

  }

  saveNewUser(user: User): Observable<User> {

    return this.httpClient.post<User>(this.httpUrl, user);

  }

  deleteUser(id: string):Observable<User> {

    // return this.httpClient.delete(`${this.httpUrl}${id}`)

    return this.httpClient.delete<User>(this.httpUrl+id);

  }

  updateUserInfo(user: User): Observable<User> {

    return this.httpClient.put<User>(this.httpUrl + user.id, user);

  }

  getUserById(id: string): Observable<User> {

    return this.httpClient.get<User>(this.httpUrl + id);

  }

}

**Company-service.ts**

import { Injectable } from '@angular/core';

import { HttpClient } from '@angular/common/http';

import { Observable } from 'rxjs';

import { Company } from '../models/company';

@Injectable({

  providedIn: 'root'

})

export class CompanyService {

  httpUrl="http://localhost:8001/companies/";

  constructor(private httpClient: HttpClient) { }

  getCompanyData(): Observable<Company[]> {

    return this.httpClient.get<[Company]>(this.httpUrl);

  }

  saveNewCompany(user: Company): Observable<Company> {

    return this.httpClient.post<Company>(this.httpUrl, user);

  }

  deleteCompany(id: string): Observable<Company> {

    // return this.httpClient.delete(`${this.httpUrl}${id}`)

    return this.httpClient.delete<Company>(this.httpUrl + id);

  }

}

**Exchange-service.ts**

import { Injectable } from '@angular/core';

import { HttpClient } from '@angular/common/http';

import { Exchange } from '../models/exchange';

import { Observable } from 'rxjs';

@Injectable({

  providedIn: 'root'

})

export class ExchangeService {

  httpUrl = "http://localhost:8080/exchanges/ ";

  constructor(private httpClient: HttpClient) { }

  getExchangeData(): Observable<Exchange[]> {

    return this.httpClient.get<Exchange[]>(this.httpUrl);

  }

  saveNewExchange(exchange: Exchange): Observable<Exchange> {

    return this.httpClient.post<Exchange>(this.httpUrl, exchange);

  }

  deleteExchange(id: string): Observable<Exchange> {

    // return this.httpClient.delete(`${this.httpUrl}${id}`)

    return this.httpClient.delete<Exchange>(this.httpUrl + id);

  }

}

**Ipo-service.ts**

import { Injectable } from '@angular/core';

import { HttpClient } from '@angular/common/http';

import { Observable } from 'rxjs';

import { Ipo } from '../models/ipo';

@Injectable({

  providedIn: 'root'

})

export class IpoService {

  httpUrl = "http://localhost:8888/ipos/";

  constructor(private httpClient: HttpClient) { }

  getIpoData(): Observable<Ipo[]> {

    return this.httpClient.get<Ipo[]>(this.httpUrl);

  }

  saveNewIpo(ipo: Ipo): Observable<Ipo> {

    return this.httpClient.post<Ipo>(this.httpUrl, ipo);

  }

  deleteIpo(id: string): Observable<Ipo> {

    // return this.httpClient.delete(`${this.httpUrl}${id}`)

    return this.httpClient.delete<Ipo>(this.httpUrl + id);

  }

}

**Admin:**

**Login.component.html**

<div class="container mt-5">

   <div class="card shadow">

    <h2 class="display-3 my-3 text-center">Sign In</h2>

    <form [formGroup]="loginForm" (ngSubmit)="login()" class="form-group w-50 container">

        <label>Username:</label>

        <input type="text" class="form-control mb-3" formControlName="userName" placeholder="Enter your user name">

        <label>Password:</label>

        <input type="text" class="form-control mb-3" formControlName="password" placeholder="Enter your password">

        <div class="text-center mt-5">

            <input [disabled]="!loginForm.valid" type="reset" class="btn btn-lg btn-info px-5 mx-3">

            <input [disabled]="!loginForm.valid" type="submit" class="btn btn-lg btn-success px-5">

        </div>

    </form>

   </div>

</div>

**Login.component.ts**

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

import { FormGroup, FormBuilder, Validators } from '@angular/forms';

import { Router } from '@angular/router';

@Component({

  selector: 'app-login',

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

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

})

export class LoginComponent implements OnInit {

  loginForm: FormGroup;

  constructor(private \_fb: FormBuilder, private router: Router) { }

  ngOnInit() {

    this.loginForm = this.\_fb.group({

      userName: ['', Validators.required],

      password: ['', Validators.required]

    })

  }

  login() {

    this.router.navigate(['/admin'])

  }

}

**Admin-landing-page.component.html**

<h2 class="display-5 text-muted text-center my-2">Welcome Admin</h2>

<hr>

<div class="row no-gutters">

    <div class="list-group list-group-flush text-center px-0 border-right col-3">

        <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/users']">Manage Users</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/manage-exchange']">Manage Exchange</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/manage-ipo']">Manage IPO</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

    </div>

    <div>

            <h4 class=" text-info">&lt;-----Select through the options</h4>

    </div>

</div>

**Admin-landing-page.component.ts**

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

@Component({

  selector: 'app-admin-landing-page',

  templateUrl: './admin-landing-page.component.html',

  styleUrls: ['./admin-landing-page.component.css']

})

export class AdminLandingPageComponent implements OnInit {

  constructor() { }

  ngOnInit() {

  }

}

**company-list.component.html**

<h2 class="display-5 text-muted text-center my-2">Manage Company</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right  col-3 h-75">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action active" [routerLink]="['/manage-company']">Manage

                Company</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-exchange']">Manage Exchange</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-ipo']">Manage IPO</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container float-right col w-75">

        <table class="table text-center">

            <tr>

                <th>Id</th>

                <th>Company Name</th>

                <th>CEO name</th>

                <th>TurnOver</th>

                <th>Board of Directors</th>

                <th>Sector</th>

                <th>Breif Description</th>

                <th>IPO Name</th>

                <th>Actions</th>

            </tr>

            <tr \*ngFor="let company of companyList">

                <td>{{company.id}}</td>

                <td>{{company.companyName}}</td>

                <td>{{company.CEOName}}</td>

                <td>{{company.turnOver}}</td>

                <td>{{company.boardOfDirectors}}</td>

                <td>{{company.sector}}</td>

                <td>{{company.description}}</td>

                <td>{{company.IPOName}}</td>

                <td><button class="btn btn-danger btn-sm" (click)="deleteCompany(company)">Delete</button></td>

            </tr>

        </table>

        <div class="text-center">

            <button class="btn btn-success w-25 " routerLink="/add-company">Add Company</button>

        </div>

    </div>

</div>

**company-list.component.ts**

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

import { Company } from '../models/company';

import { CompanyService } from '../services/company.service';

import { Router } from '@angular/router';

@Component({

  selector: 'app-company-list',

  templateUrl: './company-list.component.html',

  styleUrls: ['./company-list.component.css']

})

export class CompanyListComponent implements OnInit {

  companyList: Company[];

  constructor(private companyService: CompanyService, private router: Router) { }

  ngOnInit() {

    this.getCompany();

  }

  getCompany() {

    this.companyService.getCompanyData().subscribe(data => {

      this.companyList = data;

      console.log(data);

    });

  }

  deleteCompany(company: Company) {

    this.companyService.deleteCompany(company.id.toString()).subscribe(res => {

      console.log(res);

      this.getCompany();

    });

  }

}

**create-new-company.component.html**

<h2 class="display-4 text-center text-muted my-3">Create New Company</h2>

<div class="container">

    <form class="form-group w-50 container" [formGroup]="addCompany" (ngSubmit)="saveCompany()">

        <div class="formGroup">

            <label for="id">Id:</label>

            <input type="text" class="form-control" formControlName="id" id="id" placeholder="Enter id">

        </div>

        <div class="formGroup">

            <label for="companyName">Company Name:</label>

            <input type="text" class="form-control" formControlName="companyName" id="companyName" placeholder="Enter company name">

        </div>

        <div class="formGroup">

            <label for="CEOName">CEO name:</label>

            <input type="text" class="form-control" formControlName="CEOName" id="CEOName"

                placeholder=" Name of CEO or a Board Member">

        </div>

        <div class="formGroup">

            <label for="turnOver">TurnOver:</label>

            <input type="text" class="form-control" formControlName="turnOver" id="turnOver" placeholder=" TurnOver">

        </div>

        <div class="formGroup">

            <label for="boardOfDirectors">Board of Directors:</label>

            <input type="text" class="form-control" formControlName="boardOfDirectors" id="boardOfDirectors"

                placeholder=" Board of Directors">

        </div>

        <div class="formGroup">

            <label class="sector"> Sector:</label>

            <input type="text" class="form-control" formControlName="sector" id="sector" placeholder=" Name of Sector">

        </div>

        <div class="formGroup">

            <label for="description">Breif Description:</label>

            <input type="text" class="form-control" formControlName="description" id="description" placeholder="Maximum 100 words">

        </div>

        <div class="formGroup">

            <label for="IPOName">IPO Name:</label>

            <input type="text" class="form-control" formControlName="IPOName" id="IPOName" placeholder=" IPO Name">

        </div>

        <div class="text-center mt-3">

            <input type="reset" class="btn  btn-info px-5 mr-2">

            <input type="submit" class="btn btn-success px-5 ml-2">

        </div>

    </form>

</div>

**create-new-company.component.ts**

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

import { FormGroup, FormBuilder } from '@angular/forms';

import { CompanyService } from '../services/company.service';

@Component({

  selector: 'app-create-new-company',

  templateUrl: './create-new-company.component.html',

  styleUrls: ['./create-new-company.component.css']

})

export class CreateNewCompanyComponent implements OnInit {

  addCompany: FormGroup;

  constructor(private formBulder: FormBuilder, private companyService: CompanyService) { }

  ngOnInit() {

    this.addCompany = this.formBulder.group({

      id: [''],

      companyName: [''],

      CEOName: [''],

      turnOver: [''],

      boardOfDirectors: [''],

      sector: [''],

      description: [''],

      IPOName: ['']

    });

  }

  saveCompany() {

    this.companyService.saveNewCompany(this.addCompany.value).subscribe(data => {

      console.log(data);

      console.log('Company inserted succesfully');

      alert("Data inserted succesfully")

    }, (err) => {

      console.log('ERRRR:' + JSON.stringify(err));

    })

  }

}

**document-upload.component.html**

<h2 class="display-5 text-center my-2">Upload Excel</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right col-3 ">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action active" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action">Manage Exchange</a>

            <a class="list-group-item list-group-item-action">Update IPO Details</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container float-right col w-75 ml-5 mt-5 ">

        <form [formGroup]="uploadFile" class="custom-file w-50">

            <div class="formGroup">

                <input type="file" formControlName="file" class="formControl custom-file-input ">

                <label class="custom-file-label" for="customFile">Choose file</label>

            </div>

            <div class="float-right mt-2">

                <input type="submit" class="btn btn-success px-5">

            </div>

        </form>

    </div>

</div>

**document-upload.component.ts**

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

import { FormGroup, FormBuilder } from '@angular/forms';

@Component({

  selector: 'app-document-upload',

  templateUrl: './document-upload.component.html',

  styleUrls: ['./document-upload.component.css']

})

export class DocumentUploadComponent implements OnInit {

  uploadFile: FormGroup;

  constructor(private formBulder: FormBuilder) { }

  ngOnInit() {

    this.uploadFile = this.formBulder.group({

      file: ['']

    });

  }

}

**member.component.html**

<h2 class="display-5 text-muted text-center my-2">Users List</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right  col-3 h-75">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

            <a class="list-group-item list-group-item-action active" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action">Manage Exchange</a>

            <a class="list-group-item list-group-item-action">Update IPO Details</a>

            <a class="list-group-item list-group-item-action"[routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container float-right col w-75">

        <table class="table text-center">

            <tr>

                <th>Id</th>

                <th>username</th>

                <th>password</th>

                <th>user type</th>

                <th>email</th>

                <th>phone</th>

                <th colspan="2">Actions</th>

            </tr>

            <tr \*ngFor="let user of userList">

                <td>{{user.id}}</td>

                <td>{{user.username}}</td>

                <td>{{user.password}}</td>

                <td>{{user.userType}}</td>

                <td>{{user.email}}</td>

                <td>{{user.phone}}</td>

                <td><button class="btn btn-info" (click)="updateUser(user)">Update</button></td>

                <td><button class="btn btn-danger" (click)="deleteUser(user)">Delete</button></td>

            </tr>

        </table>

    </div>

</div>

**member.component.ts**

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

import { UserServiceService } from '../services/user-service.service';

import { User } from '../models/user';

import { Router } from '@angular/router';

@Component({

  selector: 'app-member',

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

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

})

export class MemberComponent implements OnInit {

  userList: User[];

  constructor(private userService: UserServiceService, private router: Router) { }

  ngOnInit() {

    this.getUsers();

  }

  getUsers() {

    this.userService.getUserData().subscribe(data => {

      this.userList = data;

      console.log(data);

    });

  }

  deleteUser(user:User) {

    this.userService.deleteUser(user.id.toString()).subscribe(res => {

      console.log(res);

      this.getUsers();

    });

  }

  updateUser(user: User) {

    localStorage.removeItem('userId');

    localStorage.setItem('userId', user.id.toString());

    this.router.navigate(['update-user']);

  }

}

**update-user.component.html**

<h2 class="display-5 text-center my-2 text-muted">Update User</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right  col-3 h-75">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

            <a class="list-group-item list-group-item-action active" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action">Manage Exchange</a>

            <a class="list-group-item list-group-item-action">Update IPO Details</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container col">

        <form class=" w-50 container" [formGroup]="updateUser" (ngSubmit)="saveUser()">

            <div class="form-group">

                <label for="id">Id:</label>

                <input type="text" class="form-control " id="id" formControlName="id" placeholder="Enter your ID" disabled>

            </div>

            <div class="form-group">

                <label for="username">Username:</label>

                <input type="text" class="form-control" id="username" formControlName="username"

                    placeholder=" Should contain letters and numbers">

            </div>

            <div class="form-group">

                <label for="password">password:</label>

                <input type="password" class="form-control" id="password" formControlName="password"

                    placeholder=" Use Strong password">

            </div>

            <div class="form-group">

                <label for="userType">User type:</label>

                <input type="text" class="form-control" id="userType" formControlName="userType"

                    placeholder=" Enter user type">

            </div>

            <div class="form-group">

                <label for="email">Email:</label>

                <input type="email" class="form-control" id="email" formControlName="email" placeholder=" asd@asd.com">

            </div>

            <div class="form-group">

                <label for="phone">phone:</label>

                <input type="number" class="form-control" id="phone" formControlName="phone" placeholder=" Phone Number">

            </div>

            <div class="text-center mt-3 mb-5">

                <button type="submit" class="btn  btn-success px-5 mx-3" (click)="updateTheUser(user)">Update User</button>

            </div>

        </form>

    </div>

</div>

**update-user.component.ts**

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

import { FormGroup, FormBuilder, Validators } from '@angular/forms';

import { UserServiceService } from '../services/user-service.service';

import { User } from '../models/user';

import { Router } from '@angular/router';

@Component({

  selector: 'app-update-user',

  templateUrl: './update-user.component.html',

  styleUrls: ['./update-user.component.css']

})

export class UpdateUserComponent implements OnInit {

  updateUser: FormGroup;

  constructor(private formBulder: FormBuilder, private userService: UserServiceService, private router: Router) { }

  ngOnInit() {

    this.updateUser = this.formBulder.group({

      id: [''],

      username: ['', Validators.required],

      password: ['', Validators.required],

      userType: ['', Validators.required],

      email: ['', [Validators.required, Validators.email]],

      phone: ['', Validators.required]

    });

    const id = localStorage.getItem('userId');

    if (+id > 0) {

      this.userService.getUserById(id).subscribe(user => {

        this.updateUser.patchValue(user);

      })

    }

  }

  updateTheUser(user: User) {

    this.userService.updateUserInfo(this.updateUser.value).subscribe(u => {

      this.router.navigate(['users']);

    })

  }

}

**Add-stock-exchange.component.html**

<h2 class="display-4 text-center text-muted my-3">Add New Stock Exchange</h2>

<div class="container">

    <form class="form-group w-50 container" [formGroup]="addStockExchange" (ngSubmit)="saveExchange()">

        <div class="formGroup">

            <label for="id">id:</label>

            <input type="text" class="form-control" formControlName="id" id="id" placeholder="id">

        </div>

        <div class="formGroup">

            <label for="stockExchangeName">Stock Exhange Name:</label>

            <input type="text" class="form-control" formControlName="stockExchangeName" id="stockExchangeName"

                placeholder="Enter name of stock exchange">

        </div>

        <div class="formGroup">

            <label for="breif">Breif:</label>

            <input type="text" class="form-control" formControlName="breif" id="breif" placeholder="not more than 50 words">

        </div>

        <div class="formGroup">

            <label for="address">Contact Address:</label>

            <input type="text" class="form-control" formControlName="address" id="address" placeholder="enter contact address">

        </div>

        <div class="formGroup">

            <label for="remarks">Remarks:</label>

            <input type="text" class="form-control" formControlName="remarks" id="remarks" placeholder=" not more than 100 words">

        </div>

        <div class="text-center mt-3">

            <input type="reset" class="btn  btn-info px-5 mr-2">

            <input type="submit" class="btn btn-success px-5 ml-2">

        </div>

    </form>

</div>

**Add-stock-exchange.component.ts**

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

import { FormGroup, FormBuilder } from '@angular/forms';

import { ExchangeService } from '../services/exchange.service';

@Component({

  selector: 'app-add-stock-exchange',

  templateUrl: './add-stock-exchange.component.html',

  styleUrls: ['./add-stock-exchange.component.css']

})

export class AddStockExchangeComponent implements OnInit {

  addStockExchange:FormGroup;

  constructor(private formBulder:FormBuilder,private exchangeService:ExchangeService) { }

  ngOnInit() {

    this.addStockExchange=this.formBulder.group({

      id:[''],

      stockExchangeName:[''],

      breif:[''],

      address:[''],

      remarks:['']

    });

  }

  saveExchange() {

    this.exchangeService.saveNewExchange(this.addStockExchange.value).subscribe(data => {

      console.log(data);

      console.log('exchange inserted succesfully');

      alert("Data inserted succesfully")

    }, (err) => {

      console.log('ERRRR:' + JSON.stringify(err));

    })

  }

}

**Manage-exchange.comonent.html**

<h2 class="display-5 text-muted text-center my-2">Manage Exchange</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right  col-3 h-75">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action active" [routerLink]="['/manage-exchange']">Manage

                Exchange</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-ipo']">Manage IPO</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container float-right col w-75">

        <table class="table text-center">

            <tr>

                <th>Id</th>

                <th>Stock Exhange Name</th>

                <th>Breif</th>

                <th>Contact Address</th>

                <th>Remarks</th>

                <th colspan="2">Actions</th>

            </tr>

            <tr \*ngFor="let exchange of exchangeList">

                <td>{{exchange.id}}</td>

                <td>{{exchange.stockExchangeName}}</td>

                <td>{{exchange.breif}}</td>

                <td>{{exchange.address}}</td>

                <td>{{exchange.remarks}}</td>

                <td><button class="btn btn-danger btn-sm" (click)="deleteExchange(exchange)">Delete</button></td>

            </tr>

        </table>

        <div class="text-center">

            <button class="btn btn-success w-25 " routerLink="/add-exchange">Add Exchange</button>

        </div>

    </div>

</div>

**Manage-exchange.comonent.ts**

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

import { Exchange } from '../models/exchange';

import { Router } from '@angular/router';

import { ExchangeService } from '../services/exchange.service';

@Component({

  selector: 'app-manage-exchange',

  templateUrl: './manage-exchange.component.html',

  styleUrls: ['./manage-exchange.component.css']

})

export class ManageExchangeComponent implements OnInit {

  exchangeList: Exchange[];

  constructor(private exchangeService: ExchangeService, private router: Router) { }

  ngOnInit() {

    this.getExchange();

  }

  getExchange() {

    this.exchangeService.getExchangeData().subscribe(data => {

      this.exchangeList = data;

      console.log(data);

    });

  }

  deleteExchange(exchange: Exchange) {

    this.exchangeService.deleteExchange(exchange.id.toString()).subscribe(res => {

      console.log(res);

      this.getExchange();

    });

  }

}

**Add-ipo.component.html**

<h2 class="display-5 text-center my-2 text-muted">Add IPO</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right  col-3 h-75">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-exchange']">Manage Exchange</a>

            <a class="list-group-item list-group-item-action active" [routerLink]="['/manage-ipo']">Manage IPO</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container col">

        <form class=" w-50 container" [formGroup]="addIpo" (ngSubmit)="saveIpo()">

            <div class="form-group">

                <label for="id">Id:</label>

                <input type="text" class="form-control " id="id" formControlName="id" placeholder="Enter your ID">

            </div>

            <div class="form-group">

                <label for="companyName">Company Name:</label>

                <input type="text" class="form-control" id="companyName" formControlName="companyName"

                    placeholder=" Add Company Name Here">

            </div>

            <div class="form-group">

                <label for="stockExchange">Stock Exchange:</label>

                <input type="text" class="form-control" id="stockExchange" formControlName="stockExchange"

                    placeholder=" Add Stock Exchange">

            </div>

            <div class="form-group">

                <label for="pricePerShare">Price Per Share:</label>

                <input type="number" class="form-control" id="pricePerShare" formControlName="pricePerShare"

                    placeholder=" Price in Rupees">

            </div>

            <div class="form-group">

                <label for="noOfShares">No. of Shares:</label>

                <input type="text" class="form-control" id="noOfShares" formControlName="noOfShares" placeholder=" Total no. of Shares">

            </div>

            <div class="form-group">

                <label for="openDate">Open Date:</label>

                <input type="date" class="form-control" id="openDate" formControlName="openDate"

                    placeholder=" dd/mm/yyyy">

            </div>

            <div class="text-center mt-3 mb-5">

                <button type="submit" class="btn  btn-success px-5 mx-3">Add

                    IPO</button>

            </div>

        </form>

    </div>

</div>

**Add-ipo.comonent.ts**

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

import { FormGroup, FormBuilder } from '@angular/forms';

import { IpoService } from '../services/ipo.service';

@Component({

  selector: 'app-add-ipo',

  templateUrl: './add-ipo.component.html',

  styleUrls: ['./add-ipo.component.css']

})

export class AddIpoComponent implements OnInit {

  addIpo:FormGroup;

  constructor(private formBulder:FormBuilder, private ipoService:IpoService) { }

  ngOnInit() {

    this.addIpo=this.formBulder.group({

      id:[''],

      companyName:[''],

      stockExchange:[''],

      pricePerShare:[''],

      noOfShares:[''],

      openDate:[''],

    });

  }

  saveIpo() {

    this.ipoService.saveNewIpo(this.addIpo.value).subscribe(data => {

      console.log(data);

      console.log('User inserted succesfully');

      alert("Data inserted succesfully")

    }, (err) => {

      console.log('ERRRR:' + JSON.stringify(err));

    })

  }

}

**Manage-ipo.component.html**

<h2 class="display-5 text-muted text-center my-2">Manage IPO</h2>

<hr>

<div class="row no-gutters">

    <div class="w-25 border-right  col-3 h-75">

        <div class="list-group list-group-flush  text-center">

            <a class="list-group-item list-group-item-action" [routerLink]="['/import-data']">Import Data</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-company']">Manage Company</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/users']">Manage Users</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/manage-exchange']">Manage Exchange</a>

            <a class="list-group-item list-group-item-action active" [routerLink]="['/manage-ipo']">Manage IPO</a>

            <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

        </div>

    </div>

    <div class="container float-right col w-75">

        <table class="table text-center">

            <tr>

                <th>Id</th>

                <th>Company Name</th>

                <th>Stock Exchange</th>

                <th>Price per Share</th>

                <th>Total Share</th>

                <th>Open Date</th>

                <th colspan="2">Actions</th>

            </tr>

            <tr \*ngFor="let ipo of ipoList">

                <td>{{ipo.id}}</td>

                <td>{{ipo.companyName}}</td>

                <td>{{ipo.stockExchange}}</td>

                <td>{{ipo.pricePerShare}}</td>

                <td>{{ipo.noOfShares}}</td>

                <td>{{ipo.openDate}}</td>

                <td><button class="btn btn-danger btn-sm" (click)="deleteIpo(ipo)">Delete</button></td>

            </tr>

        </table>

        <div class="text-center">

            <button class="btn btn-success w-25" routerLink="/add-ipo">Add IPO</button>

        </div>

    </div>

</div>

**Manage-ipo.component.ts**

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

import { Ipo } from '../models/ipo';

import { IpoService } from '../services/ipo.service';

import { Router } from '@angular/router';

@Component({

  selector: 'app-manage-ipo',

  templateUrl: './manage-ipo.component.html',

  styleUrls: ['./manage-ipo.component.css']

})

export class ManageIpoComponent implements OnInit {

  ipoList: Ipo[];

  constructor(private ipoService: IpoService, private router: Router) { }

  ngOnInit() {

    this.getIpo();

  }

  getIpo() {

    this.ipoService.getIpoData().subscribe(data => {

      this.ipoList = data;

      console.log(data);

    });

  }

  deleteIpo(ipo: Ipo) {

    this.ipoService.deleteIpo(ipo.id.toString()).subscribe(res => {

      console.log(res);

      this.getIpo();

    });

  }

}

**User components:**

**Login-user.component.html**

<div class="container mt-5">

    <div class="card shadow">

        <h2 class="display-3 my-3 text-center">Sign In</h2>

        <form [formGroup]="userLoginForm" (ngSubmit)="login()" class="form-group w-50 container">

            <label>Username:</label>

            <input type="text" class="form-control mb-3" formControlName="userName" placeholder="Enter your user name">

            <label>Password:</label>

            <input type="text" class="form-control mb-3" formControlName="password" placeholder="Enter your password">

            <div class="text-center mt-5">

                <input [disabled]="!userLoginForm.valid" type="reset" class="btn btn-lg btn-info px-5 mx-3">

                <input [disabled]="!userLoginForm.valid" type="submit" class="btn btn-lg btn-success px-5">

            </div>

        </form>

    </div>

</div>

**Login-user.component.ts**

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

import { FormGroup, FormBuilder, Validators } from '@angular/forms';

import { Router } from '@angular/router';

@Component({

  selector: 'app-login-user',

  templateUrl: './login-user.component.html',

  styleUrls: ['./login-user.component.css']

})

export class LoginUserComponent implements OnInit {

  userLoginForm: FormGroup;

  constructor(private formBulder: FormBuilder, private router: Router) { }

  ngOnInit() {

    this.userLoginForm = this.formBulder.group({

      userName: ['', Validators.required],

      password: ['', Validators.required]

    })

  }

  login() {

    this.router.navigate(['/user-page'])

  }

}

**User-landing-page.component.html**

<h2 class="display-5 text-center text-muted my-2">Welcome User</h2>

<hr>

<div class="row no-gutters">

    <div class="list-group list-group-flush text-center px-0 border-right col-3">

        <a class="list-group-item list-group-item-action" [routerLink]="">IPO's</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/compare-company']">Compare Company</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/compare-sectors']">Compare Sectors</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

    </div>

    <div>

        <h4 class=" text-info">&lt;-----Select through the options</h4>

    </div>

</div>

**User-landing-page.component.ts**

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

@Component({

  selector: 'app-user-landing-page',

  templateUrl: './user-landing-page.component.html',

  styleUrls: ['./user-landing-page.component.css']

})

export class UserLandingPageComponent implements OnInit {

  constructor() { }

  ngOnInit() {

  }

}

**Compare-company.component.html**

<h2 class="display-5 text-center text-muted my-2">Compare Company</h2>

<hr>

<div class="row no-gutters">

    <div class="list-group list-group-flush text-center px-0 border-right col-3">

        <a class="list-group-item list-group-item-action" [routerLink]="">IPO's</a>

        <a class="list-group-item list-group-item-action active" [routerLink]="['/compare-company']">Compare Company</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/compare-sectors']">Compare Sectors</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

    </div>

    <div class="container col">

        <form class="w-50 container" [formGroup]="compareCompany">

            <div class="form-group">

                <label for="selectCompany">Select Company:</label>

                <input type="text" class="form-control mb-3" formControlName="selectCompany"

                    placeholder="Enter company name">

            </div>

            <div class="form-group">

                <label for="selectStock">Select Stock Exchange:</label>

                <input type="text" class="form-control mb-3" formControlName="selectStock"

                    placeholder=" Name of CEO or a Board Member">

            </div>

            <div class="form-group">

                <label for="companyName">Company Name:</label>

                <input type="text" class="form-control mb-3" formControlName="companyName" placeholder=" TurnOver">

            </div>

            <div class="form-group">

                <label for="period">From period:</label>

                <input type="text" class="form-control mb-3" formControlName="period" placeholder="" disabled>

            </div>

            <div>

                <input type="reset" value="Add Company +" class="btn btn-lg btn-info px-5">

            </div>

            <br>

            <div class="text-center">

                <input type="submit" value="Generate Maps" class="btn btn-lg btn-success px-5">

            </div>

        </form>

    </div>

</div>

**Compare-company.component.ts**

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

import { FormGroup, FormBuilder } from '@angular/forms';

@Component({

  selector: 'app-compare-company',

  templateUrl: './compare-company.component.html',

  styleUrls: ['./compare-company.component.css']

})

export class CompareCompanyComponent implements OnInit {

  compareCompany: FormGroup;

  constructor(private formBulder: FormBuilder) { }

  ngOnInit() {

    this.compareCompany=this.formBulder.group({

      selectCompany:[''],

      selectStock:[''],

      companyName:[''],

      period:['']

    });

  }

}

**Compare-sectors.component.html**

<h2 class="display-5 text-center text-muted my-2">Compare Sectors</h2>

<hr>

<div class="row no-gutters">

    <div class="list-group list-group-flush text-center px-0 border-right col-3">

        <a class="list-group-item list-group-item-action" [routerLink]="">IPO's</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/compare-company']">Compare Company</a>

        <a class="list-group-item list-group-item-action active" [routerLink]="['/compare-sectors']">Compare Sectors</a>

        <a class="list-group-item list-group-item-action" [routerLink]="['/home']">Logout</a>

    </div>

    <div>

        <h3>Compare Sectors</h3>

    </div>

</div>

**Compare-sectors.component.ts**

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

@Component({

  selector: 'app-compare-sectors',

  templateUrl: './compare-sectors.component.html',

  styleUrls: ['./compare-sectors.component.css']

})

export class CompareSectorsComponent implements OnInit {

  constructor() { }

  ngOnInit() {

  }

}

**Contact-us.component.html**

<h1>Contact Us</h1>

**Contact-us.component.ts**

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

@Component({

  selector: 'app-contact-us',

  templateUrl: './contact-us.component.html',

  styleUrls: ['./contact-us.component.css']

})

export class ContactUsComponent implements OnInit {

  constructor() { }

  ngOnInit() {

  }

}

**About-us.comonent.html**

<h1>About Us</h1>

**About-us.component.ts**

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

@Component({

  selector: 'app-about-us',

  templateUrl: './about-us.component.html',

  styleUrls: ['./about-us.component.css']

})

export class AboutUsComponent implements OnInit {

  constructor() { }

  ngOnInit() {

  }

}