mAadhar Application Source Code:

Frontend:

admin.component.css:

```
.image{
     background-size:cover; width:auto;
    background-image:url('https://thumbs.dreamstime.com/b/colorful-bead-black-letter-word-admin-
abbreviation-administration-wood-background-187718269.jpg');
   height: 800px;
   background-position:89% 30%;
   background-size: 500px;
   background-repeat: no-repeat;
   background-color:antiquewhite;
  input.ng-invalid.ng-touched {
   border: 1px solid red;
admin.component.html:
<div class="image">
 <br />
  <br />
  <div class="container d-flex justify-content-left">
   <form
      [formGroup]="loginForm"
      (ngSubmit)="onSubmit()"
      class="w-50 p-4"
      style="color: rgb(3, 11, 51)"
      <h4 class="text-center">Admin Login</h4>
      <div class="row">
       <div class="form-group">
          <label for="username">Admin name</label>
            type="text"
            id="admin"
            class="form-control"
            formControlName="admin"
          />
            style="color: red"
           class="small"
            *ngIf="
             !loginForm.get('admin').valid && loginForm.get('admin').touched
            >Please enter a valid admin name</span
        </div>
      </div>
```

```
<div class="row">
        <div class="form-group">
          <label for="password">Password</label>
          <input</pre>
            type="password"
            id="password"
            class="form-control"
            formControlName="password"
          />
          <span
            style="color: red"
            class="small"
              !loginForm.get('password').valid &&
              {\tt loginForm.get('password').touched}
            >Please enter a valid password</span
          <br />
          <span
            style="color: red"
            class="small"
            *ngIf="loginForm.get('password').hasError('passwordStrength')"
            {{ loginForm.get("password").errors["passwordStrength"] }}
          </span>
        </div>
      </div>
      <br />
      <button type="submit" class="btn btn-outline-danger">Login</button>
    </form>
  </div>
</div>
admin.component.ts:
import { HttpClient } from '@angular/common/http';
import { Component, OnInit } from '@angular/core';
import { FormBuilder, FormGroup, Validators } from '@angular/forms';
import { Router } from '@angular/router';
import { PasswordStrengthValidator } from "./password-strength.validators"
@Component({
  selector: 'app-admin',
 templateUrl: './admin.component.html',
 styleUrls: ['./admin.component.css']
})
export class AdminComponent implements OnInit {
  public loginForm!: FormGroup;
 url="http://localhost:8080/admin";
 submitted=false;
  constructor(private formBuilder: FormBuilder, private http: HttpClient , private router:Router) { }
 ngOnInit(): void {
    this.loginForm=this.formBuilder.group({
      admin : ['',Validators.required],
      password : ['',Validators.compose([
```

```
Validators.required, PasswordStrengthValidator])]
 })
  }
 onSubmit() {
   this.submitted = true;
   this.login();
 login(){
   this.http.get<any>(this.url).subscribe(res=>{
      const log = res.find((a:any)=>{
       return a.admin === this.loginForm.value.admin && a.password === this.loginForm.value.password
      });
      if(log){
       alert("Login Success,Click Ok to continue!!");
       this.loginForm.reset();
       this.router.navigate(['adminhome']);
      }else{
       alert("Try Again!!");
    },err=>{
       alert("Something Went Wrong!!");
       this.loginForm.reset();
   })
 }
password-strength.validators.ts:
import { AbstractControl, ValidationErrors } from "@angular/forms"
export const PasswordStrengthValidator = function (control: AbstractControl): ValidationErrors | null {
 let value: string = control.value || '';
  if (!value) {
   return null
  }
 let upperCaseCharacters = /[A-Z]+/g
  if (upperCaseCharacters.test(value) === false) {
   return { passwordStrength: `Upper case required` };
  }
 let lowerCaseCharacters = /[a-z]+/g
  if (lowerCaseCharacters.test(value) === false) {
   return { passwordStrength: `lower case required` };
  }
  let numberCharacters = /[0-9]+/g
  if (numberCharacters.test(value) === false) {
```

```
return { passwordStrength: `number required` };
 let specialCharacters = /[!@#$%^&*()_+\-=\[\]{};':"\\|,.<>\/?]+/
 if (specialCharacters.test(value) === false) {
   return { passwordStrength: `Special char required` };
 }
 return null;
}
adminhome.component.css:
.image{
   height:39em; background-size:cover; width:auto;
   background-image:url('aadhar.jpg');
   background-position:50% 50%;
adminhome.component.html:
<div class="image">
 <div>
   <h1 class="d-flex justify-content-center" style="color: crimson">
     AADHAR APPLICATION
   </h1>
 </div>
 <div class="container">
   <button class="btn btn-outline-danger mt-5" (click)="onFetchUsers()">
     View All
   </button>
   <div class="row m-3">
     <div class="col">
      No Users Available !!
      = 1">
        <b>Aadhar id:</b>&nbsp;{{ user.citizenId }}
          <b>Name&nbsp;:</b>&nbsp;{{ user.name }}
          <b>Date Of Birth:</b>&nbsp;{{ user.dob }}
          <b>Email:</b>&nbsp;{{ user.emailid }}
          <b>Address:</b>&nbsp;{{ user.address }}
          <b>Mobile No:</b>&nbsp;{{ user.mobileno }}
          <b>Gender:</b>&nbsp;{{ user.gender }}
          <button
           class="btn btn-sm btn-danger"
           (click)="onDeleteUser(user.citizenId)"
           Delete
          </button>
        </div>
   </div>
 </div>
```

adminhome.component.ts:

```
import { HttpClient } from '@angular/common/http';
import { Component, OnInit } from '@angular/core';
import { FormBuilder } from '@angular/forms';
import { map } from 'rxjs/operators';
import { ApiService } from '../service/api.service';
import { UserData } from './userdata.model';
@Component({
  selector: 'app-adminhome',
 templateUrl: './adminhome.component.html',
 styleUrls: ['./adminhome.component.css']
export class AdminhomeComponent implements OnInit {
 fetchedUsers: UserData[] = [];
 backendurl = 'http://localhost:8080/citizens';
  constructor(private http:HttpClient,private formBuilder:FormBuilder,private api:ApiService) {}
 ngOnInit(): void {
 }
 onFetchUsers(){
   this.fetchUsers();
 fetchUsers() {
   this.http
      .get(this.backendurl)
      .pipe(
       map((responseData) => {
          const userArray: UserData[] = [];
          for (const key in responseData) {
            var x = { ...responseData[key] };
            userArray.push(x);
          }
          return userArray;
       })
      .subscribe((users) => {
       this.fetchedUsers = users;
      });
 }
 onDeleteUser(id: number) {
   this.http.delete(this.backendurl + '/' + id).subscribe((response) => {
      console.log('User deleted: ' + response);
      // this.fetchPosts();
   });
 }
```

```
export interface UserData{
   citizenId:number,
   name:string,
   dob:string,
   mobileno:string,
   address:string,
   emailid:string,
   gender:string
home.component.css:
.image{
   height:39em; background-size:cover; width:auto;
   background-image:url('https://designtemlate.s3.us-west-1.wasabisys.com/Best-Premium-Vector-Aadhar-
Card-Illustration-700.webp');
   background-position:50% 50%;
 }
home.component.html:
<div class="image">
  <div class="container">
   <h1 class="d-flex justify-content-center" style="color: crimson">
     AADHAR APPLICATION
    </h1>
     New User?<a routerLink="/register">Register Here</a>
   <br />
   <br />
    type="button"
   class="d-inline btn btn-outline-danger"
   routerLink="/userlogin"
   Citizen Login</a
  >
  <br/>
  <br/>
   ≺a
     type="button"
     class="d-inline btn btn-outline-danger"
     routerLink="/adminlogin"
     Admin Login
   </a>
  </div>
</div>
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 {
```

```
ngOnInit(): void {
 }
}
register.component.css:
.image{
   height:50em; background-size:cover; width:auto;
   background-image:url('https://img.etimg.com/thumb/width-1200,height-900,imgsize-341034,resizemode-
75, msid-89920834/wealth/save/baal-aadhaar-how-to-apply-aadhaar-card-for-children.jpg');
   background-position:89% 30%;
   background-size: 550px;
   background-repeat: no-repeat;
   background-color:antiquewhite
 }
register.component.html:
<div class="image">
 <br />
 <h3 style="color: rgba(42, 2, 71, 0.84)" class="text-center">
   Registration Page
 </h3>
 <a routerLink="/home" class="nav-link" >Home</a>
   <div class="container mt-3 d-flex justify-content-left">
   <form #f="ngForm" class="w-50 p-4" style="color: rgb(120, 55, 5)">
     <div class="row mb-2">
       <div class="form-group">
         <label for="name">Name</label>
           type="text"
           id="name"
           class="form-control"
           name="name"
           required
           ngModel
           #name="ngModel"
         />
       </div>
     </div>
     <div class="row mb-2">
       <div class="form-group">
         <label for="dob">Date Of Birth</label>
         <input</pre>
           type="text"
           id="dob"
           class="form-control"
           name="dob"
           ngModel
           required
```

constructor() { }

```
dob
      #dob="ngModel"
    />
    <span
     id="err-dob"
     style="color: red"
      class="small"
      *ngIf="!dob.valid && dob.touched"
      >Please enter a valid dob</span
 </div>
</div>
<div class="row mb-2">
  <div class="form-group">
    <label for="emailid">Email</label>
    <input</pre>
      type="text"
      id="emailid"
      class="form-control"
      name="emailid"
      ngModel
      required
      emailid
      #emailid="ngModel"
    />
    <span
     id="err-email"
     style="color: red"
     class="small"
      *ngIf="!emailid.valid && emailid.touched"
      >Please enter a valid email</span
 </div>
</div>
<div class="row mb-2">
 <div class="form-group">
    <label for="address">Address</label>
    <textarea
     type="text"
      id="address"
      class="form-control"
      name="address"
      ngModel
      required
      address
      #address="ngModel"
    ></textarea>
    <span
     id="err-address"
      style="color: red"
      class="small"
      *ngIf="!address.valid && address.touched"
      >Please enter a valid address</span
 </div>
</div>
<div class="row mb-2">
 <div class="form-group">
```

```
<label for="Phoneno">Mobile No:</label>
          <input</pre>
            type="text"
            id="mobileno"
            class="form-control"
            name="mobileno"
            ngModel
            required
            mobileno
            #mobileno="ngModel"
          />
          <span
            id="err-mobile"
            style="color: red"
            class="small"
            *ngIf="!mobileno.valid && mobileno.touched"
            >Please enter a valid Mobile Number</span
        </div>
      </div>
      <div class="row mb-2">
        <div class="form-group">
          <label for="gender">Gender</label>
          <input</pre>
            type="text"
            id="gender"
            class="form-control"
            name="gender"
            ngModel
            required
            gender
            #gender="ngModel"
          />
          <span
            id="err-gender"
            style="color: red"
            class="small"
            *ngIf="!gender.valid && gender.touched"
            >Please enter a valid Gender</span
        </div>
      </div>
      <button
        class="btn btn-outline-danger m-2"
        [disabled]="!f.valid"
        (click)="onAddCitizen(f.value, f)"
        id="register"
        Register
      </button>
    </form>
  </div>
</div>
register.component.ts:
```

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

```
import { Component, OnInit } from '@angular/core';
import { NgForm } from '@angular/forms';
@Component({
     selector: 'app-register',
    templateUrl: './register.component.html',
    styleUrls: ['./register.component.css']
})
export class RegisterComponent implements OnInit {
    url='http://localhost:8080/citizens';
    constructor(private http:HttpClient) { }
    ngOnInit(): void {
    onAddCitizen(citizenData:
\{name: string, dob: string, emailid: string, gender: string, mobileno: string, address: string \ \}, \ form: \ NgForm) \ \{name: string, dob: string, emailid: string, gender: string, mobileno: string, address: string \ \}, \ form: \ NgForm) \ \{name: string, dob: string, emailid: string, gender: string, mobileno: string, address: string \ \}, \ form: \ NgForm) \ \{name: string, dob: string, emailid: string, gender: string, emailid: string, emailid:
         this.http.post(this.url, citizenData).subscribe((responseData) => {
               console.log(responseData);
               alert("Registered Successfully!!");
               form.reset();
          },err=>{
               alert("Something Happened!!")
          });
}
api.service.ts:
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { map } from 'rxjs/operators';
@Injectable({
    providedIn: 'root'
export class ApiService {
    constructor(private http:HttpClient) { }
    UpdateUser(data:any,id:number){
          return this.http.put<any>('http://localhost:8080/citizens',data)
          .pipe(map((res:any)=>{
               return res;
          }))
    }
}
user.component.css:
.image{
          height:39em; background-size:cover; width:auto;
          background-image:url('https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcQoe56UV1WpPue4uvKNEGweCaLMfIppfpiYPA&usqp=CAU');
```

```
background-position:89% 30%;
    background-size: 600px;
    background-repeat: no-repeat;
   background-color:antiquewhite;
 }
user.component.html:
<div class="image">
  <br />
  <br />
  <div class="container d-flex justify-content-left">
      [formGroup]="loginForm"
      (ngSubmit)="onSubmit()"
      class="w-50 p-4"
      style="color: rgb(3, 11, 51)"
      <h4 class="text-center">Citizen Login</h4>
      <div class="row">
        <div class="form-group">
          <label for="citizenId">AadharId</label>
          <br />
          <input</pre>
            type="number"
            id="citizen_id"
            class="form-control"
            formControlName="citizenId"
          />
        </div>
      </div>
      <div class="row">
        <div class="form-group">
          <label for="password">Password</label>
          <br />
          <span class="small" style="color: darkgreen"</pre>
            >Your mobile number is your password</span
          <input</pre>
            type="password"
            id="password"
            class="form-control"
            formControlName="mobileno"
          />
          <span
            style="color: red"
            class="small"
              !loginForm.get('mobileno').valid &&
              loginForm.get('mobileno').touched
            >Please enter a valid password</span
        </div>
      </div>
      <br />
```

```
<button type="submit" class="btn btn-outline-danger">Login</button>
    </form>
  </div>
</div>
User.component.ts:
import { HttpClient } from '@angular/common/http';
import { Component, OnInit } from '@angular/core';
import { FormBuilder, FormGroup, Validators } from '@angular/forms';
import { Router } from '@angular/router';
@Component({
  selector: 'app-user',
 templateUrl: './user.component.html',
 styleUrls: ['./user.component.css']
})
export class UserComponent implements OnInit {
 public loginForm!: FormGroup;
 url="http://localhost:8080/citizens";
  submitted=false;
 constructor(private formBuilder: FormBuilder, private http: HttpClient , private router:Router) { }
 ngOnInit(): void {
   this.loginForm=this.formBuilder.group({
      citizenId : ['',Validators.required],
     mobileno : ['',Validators.required]
 })
  }
 onSubmit() {
   this.submitted = true;
   this.login();
 }
 login(){
    this.http.get<any>(this.url).subscribe(res=>{
      const log = res.find((a:any)=>{
       return a.citizenId === this.loginForm.value.citizenId && a.mobileno ===
this.loginForm.value.mobileno
     });
      if(log){
       alert("Login Success,Click Ok to continue!!");
       this.loginForm.reset();
       this.router.navigate(['userhome']);
      }else{
       alert("Try Again!!");
    },err=>{
       alert("Something Went Wrong!!");
       this.loginForm.reset();
   })
```

}

user.model.ts:

```
export class UserModel{
    citizenId:number;
    name:string;
    dob:string;
    mobileno:string;
    address:string;
    emailid:string;
    gender:string;
}
```

userdata.model.ts:

```
export interface UserData{
    citizenId:number,
    name:string,
    dob:string,
    mobileno:string,
    address:string,
    emailid:string,
    gender:string
}
```

userhome.component.css:

```
.image{
   height:39em; background-size:cover; width:auto;
   background-image:url('aadhar.jpg');
   background-position:50% 50%;
}
```

userhome.component.html:

```
<b>Email:</b>&nbsp;{{ user.emailid }}
         <b>Address:</b>&nbsp;{{ user.address }}
         <b>Mobile No:</b>&nbsp;{{ user.mobileno }}
         <b>Gender:</b>&nbsp;{{ user.gender }}
         <button
           type="button"
           class="btn btn-outline-primary"
           data-bs-toggle="modal"
           data-bs-target="#exampleModal"
           (click)="onEdit(user)"
           Update</button
         >    
           type="button"
           class="btn btn-outline-primary align-right"
           routerLink="/home"
           >Logout</a
       </div>
     </div>
   </div>
 </div>
 <div class="footer bg-secondary d-flex align-items-end"></div>
</div>
<!-- Modal -->
<div
 class="modal fade"
 id="exampleModal"
 tabindex="-1"
 aria-labelledby="exampleModalLabel"
 aria-hidden="true"
 <div class="modal-dialog">
   <div class="modal-content">
     <div class="modal-header">
       <h5 class="modal-title" id="exampleModalLabel">Update User</h5>
       <button
         type="button"
         class="btn-close"
         data-bs-dismiss="modal"
         aria-label="Close"
       ></button>
     </div>
     <div class="modal-body">
       <form [formGroup]="loginForm" style="color: rgb(120, 55, 5)">
         <div class="row mb-2">
           <div class="form-group">
             <label for="name">Name</label>
             <input</pre>
               type="text"
               id="name"
               class="form-control"
               name="name"
```

```
required
      formControlName="name"
    />
 </div>
</div>
<div class="row mb-2">
 <div class="form-group">
    <label for="dob">Date Of Birth</label>
    <input
      type="text"
      id="dob"
     class="form-control"
      name="dob"
      formControlName="dob"
     required
   />
 </div>
</div>
<div class="row mb-2">
 <div class="form-group">
    <label for="emailid">Email</label>
    <input</pre>
      type="text"
      id="emailid"
      class="form-control"
      name="emailid"
     formControlName="emailid"
      required
   />
 </div>
</div>
<div class="row mb-2">
 <div class="form-group">
   <label for="address">Address</label>
    <textarea
     type="text"
      id="address"
      class="form-control"
      name="address"
      required
      formControlName="address"
   ></textarea>
 </div>
</div>
<div class="row mb-2">
 <div class="form-group">
    <label for="Phoneno">Mobile No:</label>
    <input</pre>
     type="text"
      id="mobileno"
      class="form-control"
      name="mobileno"
      required
      formControlName="mobileno"
   />
 </div>
</div>
<div class="row mb-2">
```

```
<div class="form-group">
              <label for="gender">Gender</label>
              <input</pre>
                type="text"
                id="gender"
                class="form-control"
                name="gender"
                required
                formControlName="gender"
              />
            </div>
          </div>
        </form>
        <div class="modal-footer">
          <button</pre>
            type="button"
            class="btn btn-secondary"
            data-bs-dismiss="modal"
            Close
          </button>
          <button type="button" (click)="updateUser()" class="btn btn-primary">
            Save changes
          </button>
        </div>
      </div>
    </div>
  </div>
</div>
userhome.component.ts:
import { HttpClient } from '@angular/common/http';
import { Component, OnInit } from '@angular/core';
import { FormBuilder, FormGroup } from '@angular/forms';
import { map } from 'rxjs/operators';
import { ApiService } from '../service/api.service';
import { UserModel } from './user.model';
import { UserData } from './userdata.model';
@Component({
  selector: 'app-userhome',
 templateUrl: './userhome.component.html',
  styleUrls: ['./userhome.component.css']
})
export class UserhomeComponent implements OnInit {
 userModelObj:UserModel=new UserModel();
 public loginForm!: FormGroup;
  fetchedUsers: UserData[] = [];
 backendurl = 'http://localhost:8080/citizens';
  constructor(private http:HttpClient,private formBuilder:FormBuilder,private api:ApiService) {}
 ngOnInit(): void {
    this.loginForm=this.formBuilder.group({
      name : [''],
      dob : [''],
      emailid : [''],
      mobileno : [''],
```

```
address : [''],
      gender : [''],
 })
    this.fetchUsers();
  fetchUsers() {
    this.http
      .get(this.backendurl)
      .pipe(
       map((responseData) => {
          const userArray: UserData[] = [];
          for (const key in responseData) {
            var x = { ...responseData[key] };
            userArray.push(x);
          }
          return userArray;
       })
      .subscribe((users) => {
       this.fetchedUsers = users;
      });
  }
  onEdit(user:any){
  this.userModelObj.citizenId=user.citizenId;
  this.loginForm.controls['name'].setValue(user.name);
   this.loginForm.controls['dob'].setValue(user.dob);
   this.loginForm.controls['emailid'].setValue(user.emailid);
   this.loginForm.controls['mobileno'].setValue(user.mobileno);
   this.loginForm.controls['address'].setValue(user.address);
  this.loginForm.controls['gender'].setValue(user.gender);
  updateUser(){
    this.userModelObj.name=this.loginForm.value.name;
    this.userModelObj.emailid=this.loginForm.value.emailid;
    this.userModelObj.gender=this.loginForm.value.gender;
    this.userModelObj.address=this.loginForm.value.address;
    this.userModelObj.mobileno=this.loginForm.value.mobileno;
    this.userModelObj.dob=this.loginForm.value.dob;
    this.api.UpdateUser(this.userModelObj,this.userModelObj.citizenId)
    .subscribe(res=>{
      alert("Updated SuccessFully!!");
      this.loginForm.reset();
      this.fetchUsers();
    },err=>{
      alert("Something Went Wrong:/")
   })
  }
}
app.component.css:
.image{
   height:39em; background-size:cover; width:auto;
```

```
background-image:url('aadhar.jpg');
   background-position:50% 50%;
app.component.html:
<router-outlet></router-outlet>
app.compnent.spec.ts:
import { TestBed } from '@angular/core/testing';
import { AppComponent } from './app.component';
describe('AppComponent', () => {
  beforeEach(async () => {
    await TestBed.configureTestingModule({
      declarations: [
        AppComponent
      ],
   }).compileComponents();
  });
  it('should create the app', () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app).toBeTruthy();
  });
  it(`should have as title 'AadharApp'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app.title).toEqual('AadharApp');
  it('should render title', () => {
    const fixture = TestBed.createComponent(AppComponent);
    fixture.detectChanges();
    const compiled = fixture.nativeElement as HTMLElement;
    expect(compiled.querySelector('.content span')?.textContent).toContain('AadharApp app is running!');
 });
});
app.component.ts:
import { Component } from '@angular/core';
@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
export class AppComponent {
  title = 'AadharApp';
```

app.module.ts:

```
import { NgModule } from '@angular/core';
import { FormsModule, ReactiveFormsModule } from '@angular/forms';
import { BrowserModule } from '@angular/platform-browser';
import { RouterModule, Routes } from '@angular/router';
import {HttpClientModule} from '@angular/common/http'
import { AppComponent } from './app.component';
import { AdminComponent } from './admin/admin.component';
import { HomeComponent } from './home/home.component';
import { RegisterComponent } from './register/register.component';
import { UserComponent } from './user/user.component';
import { AdminhomeComponent } from './adminhome/adminhome.component';
import { UserhomeComponent } from './userhome/userhome.component';
const appRoutes:Routes=[
  { path: '', redirectTo: 'home' , pathMatch:'full' },
  { path: 'adminlogin', component: AdminComponent },
  { path: 'home', component: HomeComponent },
  { path : 'register' , component: RegisterComponent},
  { path : 'userlogin' , component :UserComponent},
  { path : 'adminhome' , component: AdminhomeComponent},
  { path : 'userhome' , component: UserhomeComponent}
]
@NgModule({
  declarations: [
    AppComponent,
    AdminComponent,
    HomeComponent,
    RegisterComponent,
    UserComponent,
    AdminhomeComponent,
   UserhomeComponent
  ],
  imports: [
    BrowserModule, FormsModule,
    RouterModule.forRoot(appRoutes),
    ReactiveFormsModule,
   HttpClientModule
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
index.html
<!DOCTYPE html>
<html lang="en">
    <meta charset="utf-8" />
```

```
<title>AadharApp</title>
    <base href="/" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <link rel="icon" type="image/x-icon" href="favicon.ico" />
    <style>
     body {
       background-image: url("");
       background-repeat: no-repeat;
       background-attachment: fixed;
       background-size: cover;
     }
    </style>
  </head>
  <body>
   <app-root></app-root>
  </body>
</html>
dockerfile:
FROM node:16.14.0-alpine AS build
RUN npm i -g @angular/cli@13.1.0
WORKDIR /app
COPY package.json package-lock.json ./
RUN npm install
COPY . .
RUN ng build --prod
FROM nginx
COPY --from=build /app/dist/AadharApp/ /usr/share/nginx/html/
aadharbackendapplication.java
package com.example.capstone;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class AadharBackendApplication {
        public static void main(String[] args) {
```

```
SpringApplication.run(AadharBackendApplication.class, args);
       }
}
aadharapiexception.java
package com.example.capstone.AadharRestApi.Controller;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.ControllerAdvice;
import org.springframework.web.bind.annotation.ExceptionHandler;
import com.examples.capstone.AadharRestApi.Exception.AdminNotFoundException;
import com.examples.capstone.AadharRestApi.Exception.CitizenNotFoundException;
import com.examples.capstone.AadharRestApi.Exception.UserNotFoundException;
@ControllerAdvice
public class AadharApiException {
       @ExceptionHandler(value=AdminNotFoundException.class)
       public ResponseEntity<Object> handleException(AdminNotFoundException ex) {
               return new ResponseEntity<Object>(ex.getMessage(), HttpStatus.NOT_FOUND);
       }
       @ExceptionHandler(value=UserNotFoundException.class)
```

```
return new ResponseEntity<Object>(ex.getMessage(), HttpStatus.NOT_FOUND);
       }
       @ExceptionHandler(value=CitizenNotFoundException.class)
       public ResponseEntity<Object> handleException(CitizenNotFoundException ex) {
               return new ResponseEntity<Object>(ex.getMessage(), HttpStatus.NOT FOUND);
       }
}
restapicontroller.java
package com.example.capstone.AadharRestApi.Controller;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.ControllerAdvice;
import org.springframework.web.bind.annotation.ExceptionHandler;
import com.examples.capstone.AadharRestApi.Exception.AdminNotFoundException;
import com.examples.capstone.AadharRestApi.Exception.CitizenNotFoundException;
import\ com. examples. capstone. A adhar Rest Api. Exception. User Not Found Exception;
@ControllerAdvice
public class AadharApiException {
```

public ResponseEntity<Object> handleException(UserNotFoundException ex) {

```
public ResponseEntity<Object> handleException(AdminNotFoundException ex) {
               return new ResponseEntity<Object>(ex.getMessage(), HttpStatus.NOT_FOUND);
       }
       @ExceptionHandler(value=UserNotFoundException.class)
       public ResponseEntity<Object> handleException(UserNotFoundException ex) {
               return new ResponseEntity<Object>(ex.getMessage(), HttpStatus.NOT_FOUND);
       }
       @ExceptionHandler(value=CitizenNotFoundException.class)
       public ResponseEntity<Object> handleException(CitizenNotFoundException ex) {
               return new ResponseEntity<Object>(ex.getMessage(), HttpStatus.NOT_FOUND);
       }
}
admin.java
package com.example.capstone.AadharRestApi.Entity;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
```

@ExceptionHandler(value=AdminNotFoundException.class)

```
@Entity
public class Admin {
        @ld
        @GeneratedValue(strategy = GenerationType.IDENTITY)
        private int id;
        private String admin;
        private String password;
        public int getId() {
                return id;
        }
        public void setId(int id) {
                this.id = id;
       }
        public String getAdmin() {
                return admin;
        }
        public void setAdmin(String admin) {
                this.admin = admin;
        }
        public String getPassword() {
                return password;
       }
```

public void setPassword(String password) {

```
this.password = password;
       }
        @Override
        public String toString() {
                return "Admin [id=" + id + ", admin=" + admin + ", password=" + password + "]";
        }
}
<mark>citizens.java</mark>
package com.example.capstone.AadharRestApi.Entity;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
@Entity
public class Citizens {
        @ld
        @GeneratedValue(strategy = GenerationType.IDENTITY)
        private int citizenId;
```

```
private String name;
private String dob;
private String emailid;
private String mobileno;
private String gender;
private String address;
public int getCitizenId() {
        return citizenId;
}
public void setCitizenId(int citizenId) {
        this.citizenId = citizenId;
}
public String getName() {
        return name;
}
public void setName(String name) {
        this.name = name;
}
public String getDob() {
        return dob;
}
public void setDob(String dob) {
        this.dob = dob;
}
public String getEmailid() {
```

```
return emailid;
}
public void setEmailid(String emailid) {
        this.emailid = emailid;
}
public String getMobileno() {
        return mobileno;
}
public void setMobileno(String mobileno) {
        this.mobileno = mobileno;
}
public String getGender() {
        return gender;
}
public void setGender(String gender) {
        this.gender = gender;
}
public String getAddress() {
        return address;
}
public void setAddress(String address) {
        this.address = address;
}
@Override
public String toString() {
```

```
return "Citizens [citizenId=" + citizenId + ", name=" + name + ", dob=" + dob + ",
emailid=" + emailid
                               + ",mobileno=" + mobileno + ", gender=" + gender + ", address=" +
address
                               +"]";
       }
}
<mark>user.java</mark>
package com.example.capstone.AadharRestApi.Entity;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
@Entity
public class User {
        @ld
        @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
private int id;
private String emailId;
private String password;
public int getId() {
        return id;
}
public void setId(int id) {
        this.id = id;
}
public String getEmail() {
        return emailId;
}
public void setEmail(String email) {
        this.emailId = email;
}
public String getPassword() {
        return password;
}
public void setPassword(String password) {
        this.password = password;
}
@Override
public String toString() {
        return "User [id=" + id + ", email=" + emailId + ", password=" + password + "]";
}
```

```
}
adminrepo.java
package com.example.capstone.AadharRestApi.Repository;
import org.springframework.data.repository.CrudRepository;
import com.example.capstone.AadharRestApi.Entity.Admin;
public interface AdminRepo extends CrudRepository<Admin, Integer>{
}
citizensrepo.java
package com.example.capstone.AadharRestApi.Repository;
import org.springframework.data.repository.CrudRepository;
import com.example.capstone.AadharRestApi.Entity.Citizens;
public interface CitizensRepo extends CrudRepository<Citizens, Integer>{
}
```

```
userrepo.java
package com.example.capstone.AadharRestApi.Repository;
import org.springframework.data.repository.CrudRepository;
import com.example.capstone.AadharRestApi.Entity.User;
public interface UserRepo extends CrudRepository<User, Integer>{
}
adminnotfoundexception.java
package com.examples.capstone.AadharRestApi.Exception;
public class AdminNotFoundException extends RuntimeException{
       public AdminNotFoundException(int id) {
               super("Admin with id " + id + " is not Found.Pls Give another id!!");
       }
}
citizensnotfoundexception.java
package com.examples.capstone.AadharRestApi.Exception;
public class CitizenNotFoundException extends RuntimeException{
       public CitizenNotFoundException(int id) {
```

```
super("Citizen with id " + id + " is not Found.Pls Give another id!!");
       }
}
usernotfoundexception.java
package com.examples.capstone.AadharRestApi.Exception;
public class UserNotFoundException extends RuntimeException{
       public UserNotFoundException(int id) {
               super("User with id " + id + " is not Found.Pls Give another id!!");
       }
}
application.properties
server.port=8080
spring.datasource.url=jdbc:mysql://localhost/maadhar_db
spring.datasource.username=root
spring.datasource.password=abdul123@
spring.jpa.properties.hibernate.show_sql=true
spring.jpa.properties.hibernate.format_sql=true
spring.jpa.hibernate.ddl-auto=update
logging.level.org.hibernate=INFO
logging.level.org.hibernate.SQL=INFO
logging.level.org.hibernate.type.descriptor.sql.BasicBinder=TRACE
```

```
logging.level.org.springframework=INFO
logging.level.org.apache=INFO
pom.xml
<?xml version="1.0" encoding="UTF-8"?>
project xmIns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
       <modelVersion>4.0.0</modelVersion>
       <parent>
              <groupId>org.springframework.boot</groupId>
              <artifactId>spring-boot-starter-parent</artifactId>
              <version>2.7.4</version>
              <relativePath/> <!-- lookup parent from repository -->
       </parent>
       <groupId>com.example
       <artifactId>AadharBackend</artifactId>
       <version>0.0.1-SNAPSHOT</version>
       <name>AadharBackend</name>
       <description>Demo project for Spring Boot</description>
       cproperties>
              <java.version>17</java.version>
       </properties>
       <dependencies>
       <dependency>
                      <groupId>org.springframework.boot</groupId>
```

```
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-devtools</artifactId>
       <scope>runtime</scope>
       <optional>true</optional>
</dependency>
<dependency>
       <groupId>mysql
       <artifactId>mysql-connector-java</artifactId>
       <scope>runtime</scope>
</dependency>
<dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-starter</artifactId>
</dependency>
<dependency>
       <groupId>org.springframework.boot</groupId>
```

```
<artifactId>spring-boot-starter-test</artifactId>
                       <scope>test</scope>
               </dependency>
        </dependencies>
        <build>
               <plugins>
                       <plugin>
                               <groupId>org.springframework.boot</groupId>
                               <artifactId>spring-boot-maven-plugin</artifactId>
                       </plugin>
               </plugins>
        </build>
</project>
<mark>dockerfile</mark>
FROM openjdk:17-slim
COPY target/AadharBackend-0.0.1-SNAPSHOT.jar app.jar
EXPOSE 8080
ENTRYPOINT ["java", "-jar", "app.jar"]
```

Testing

```
aadharadmin.java:
package com.capstone;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
public class AadharAdmin {
       static WebDriver webdriver = null;
       @Test
       public void ChromeBrowser() {
         System.setProperty("webdriver.chrome.driver",
             "C:\Users\kvsivasankar\eclipse-
workspace\Downloads\chromedriver_win32\\chromedriver.exe");
               webdriver = new ChromeDriver();
               webdriver.manage().window().maximize();
               System.out.println("Chrome Browser is Opened!!");
       }
       @Test
```

```
public void TestHome() {
               webdriver.get("http://localhost:4200/home");
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.findElement(By.xpath("/html[1]/body[1]/app-root[1]/app-
home[1]/div[1]/div[1]/a[3]")).click();
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.get("http://localhost:4200/adminlogin");
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.findElement(By.id("admin")).sendKeys("admin");
               webdriver.findElement(By.id("password")).sendKeys("12345");
               webdriver.findElement(By.xpath("//button[normalize-space()='Login']")).click();
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
```

```
e.printStackTrace();
               }
       }
}
aadharcitizen.java:
package com.capstone;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import\ org. open qa. selenium. chrome. Chrome Driver;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
public class AadharCitizen {
       static WebDriver webdriver = null;
       @Test
       public void ChromeBrowser() {
```

```
System.setProperty("webdriver.chrome.driver",
              "C:\Users\kvsivasankar\eclipse-
workspace\Downloads\chromedriver_win32\\chromedriver.exe");
               webdriver = new ChromeDriver();
               webdriver.manage().window().maximize();
               System.out.println("Chrome Browser is Opened!!");
       }
       @Test
       public void CitizenCheck() {
               webdriver.get("http://localhost:4200/home");
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.findElement(By.xpath("/html[1]/body[1]/app-root[1]/app-
home[1]/div[1]/div[1]/a[1]")).click();
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.get("http://localhost:4200/userlogin");
```

```
try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.findElement(By.id("citizen_id")).sendKeys("2");
               webdriver.findElement(By.id("password")).sendKeys("8096956409");
               webdriver.findElement(By.xpath("//button[normalize-space()='Login']")).click();
       }
}
aadhar register.java:
package com.capstone;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
public class AadharRegister {
       static WebDriver webdriver = null;
```

```
@Test
       public void ChromeBrowser() {
         System.setProperty("webdriver.chrome.driver",
              "C:\Users\kvsivasankar\eclipse-
workspace\Downloads\chromedriver win32\\chromedriver.exe");
               webdriver = new ChromeDriver();
               webdriver.manage().window().maximize();
               System.out.println("Chrome Browser is Opened!!");
       }
       @Test
       public void TestHome() {
               webdriver.get("http://localhost:4200/home");
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
               }
               webdriver.findElement(By.xpath("/html[1]/body[1]/app-root[1]/app-
home[1]/div[1]/div[1]/a[2]")).click();
               webdriver.get("http://localhost:4200/register");
               try {
                       Thread.sleep(3000);
               } catch (InterruptedException e) {
                       e.printStackTrace();
```

```
}
               webdriver.findElement(By.id("name")).sendKeys("sivasankar");
               webdriver.findElement(By.id("dob")).sendKeys("2001-01-21");
               webdriver.findElement(By.id("emailid")).sendKeys("s@gmail.com");
               webdriver.findElement(By.id("address")).sendKeys("main raod ");
               webdriver.findElement(By.id("mobileno")).sendKeys("8096956409");
               webdriver.findElement(By.id("gender")).sendKeys("male");
       }
}
testngadmin.xml:
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
 <test thread-count="5" name="Test">
  <classes>
   <class name="com.capstone.AadharAdmin"/>
  </classes>
 </test> <!-- Test -->
</suite> <!-- Suite -->
testngcitizen.java:
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
<test thread-count="5" name="Test">
  <classes>
   <class name="com.capstone.AadharCitizen"/>
  </classes>
</test> <!-- Test -->
</suite> <!-- Suite -->
testngreg.xml:
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
<test thread-count="5" name="Test">
  <classes>
   <class name="com.capstone.AadharRegister"/>
  </classes>
 </test> <!-- Test -->
</suite> <!-- Suite -->
pom.xml:
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-
4.0.0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
<groupId>org.mycompany
<artifactId>AadharTesting</artifactId>
<version>0.0.1-SNAPSHOT
<build>
 <sourceDirectory>src</sourceDirectory>
 <plugins>
  <plugin>
   <artifactId>maven-compiler-plugin</artifactId>
   <version>3.8.1</version>
   <configuration>
    <release>15</release>
   </configuration>
  </plugin>
  <plugin>
      <groupId>org.apache.maven.plugins
   <artifactId>maven-surefire-plugin</artifactId>
   <version>3.0.0-M5</version>
   <configuration>
      <suiteXmlFiles>
             <suiteXmlFile>testng.xml</suiteXmlFile>
      </suiteXmlFiles>
   </configuration>
  </plugin>
 </plugins>
```