EMP No: 2577108
Name: Pramod

Source Code- mAadhar Application

FRONT-END

Add-request.component.html:

```
<div>
    <h2>Apply for Aadhar Card</h2><br>
    <form [formGroup]="reqRef" (ngSubmit)="storeRequest()">
    <!-- <label>Adharid</label>
    <input type="text" formControlName="adharid"><br/> -->
    <label>Email</label>&nbsp;&nbsp;
    <input type="text" formControlName="emailid"><br/><br>
    <label>Name</label>&nbsp;&nbsp;
    <input type="text" formControlName="name"><br/><br>
    <label>Age</label>&nbsp;&nbsp;&nbsp;&nbsp;
    <input type="number" formControlName="age"><br/><br>
    <label>Address</label>&nbsp;
    <input type="text" formControlName="address"><br/><br>
    <input type="submit" class="btn btn-success"
value="APPLY"/>&nbsp;&nbsp;&nbsp;
    <input type="reset" class="btn btn-dark" value="RESET"/><br/>
    </form><br/>
    <span style="color:red">{{storeMsg}}</span>
    </div>
```

Add-request.component.ts:

```
import { Component, OnInit } from '@angular/core';
import {FormGroup,FormControl} from '@angular/forms';
 import { RequestsService } from '../requests.service';
@Component({
selector: 'app-add-request', templateUrl: './add-request.component.html',
styleUrls: ['./add-request.component.css']
})
export class AddRequestComponent implements OnInit {
reqRef = new FormGroup({
// adharid:new FormControl(), emailid:new FormControl(), name:new FormControl(),
age:new FormControl(), address:new FormControl()
})
storeMsg :string ="";
 constructor(public rs:RequestsService) { }
ngOnInit(): void {
}
storeRequest() {
let request = this.reqRef.value;
console.log(request);
this.rs.storeRequest(request).subscribe({
next:(result:any)=>this.storeMsg=result, error:(error:any)=>console.log(error),
complete:()=>console.log("completed")
})
this.reqRef.reset();
}
}
```

Admindashboard.component.html:

```
<div>
    <h2>Welcome to home page admin {{user}}</h2>
    <a routerLink="viewReq" class="btn btn-primary">View All
    Request</a>&nbsp;&nbsp;&nbsp;|&nbsp;&nbsp;&nbsp;
    <a routerLink="viewall" class="btn btn-primary">Display all issued Aadhaar
Card</a>
    <br/>
    <hr/>
    <router-outlet></router-outlet>
    <hr/>
    <br/>
    <input type="button" class="btn btn-dark" value="logout" (click)="logout()"/>
</div>
```

Admindashboard.component.ts:

```
import { Component, OnInit } from '@angular/core';
import { Router } from '@angular/router';
@Component({
selector: 'app-admindashboard', templateUrl: './admindashboard.component.html',
styleUrls: ['./admindashboard.component.css']
})
export class AdmindashboardComponent implements OnInit {
user:string ="";
constructor(private router:Router) { }
ngOnInit(): void {
let obj = sessionStorage.getItem("userDetails");
if(obj!=null){
this.user=obj;
}
}

logout() {
sessionStorage.removeItem("userDetails");
this.router.navigate(["login"]);
}
}
```

displayalladhar.component.html:

```
<div>
    <span *ngFor="let r of requests">
        <!-- <span>{{r.adharid}} {{r.emailid}}</span>
        <input type="button" value="DENY REQUEST"
(click)="denyRequest(r.adharid)"/>
        <input type="button" value="APPROVE REQUEST" (click)="approvereq(r)"/> --
>
        <div class="container">
            <table class="table">
                <tr>
                    <th>Email ID</th>
                    <th>Name</th>&nbsp;&nbsp;&nbsp;
                    <th>Age</th>&nbsp;
                    <th>Address</th>&nbsp;
                    <th>Aadhar ID</th>
                </tr>
                <tr>
                    <td>{{r.emailid}}</td>
                    <td>{{r.name}}</td>&nbsp;
                    <td>{{r.age}}</td>&nbsp;
                    <td>{{r.address}}</td>&nbsp;
                    <td>{{r.adharid}}</td>
                    <input type="button" value="ISSUED AADHAR CARD"/></td>
                </tr>
            </table>
            <hr>
        </div>
    </span>
</div>
```

displayalladhar.component.ts:

```
import { Component, OnInit } from '@angular/core';
import { Requests } from '../requests';
import { RequestsService } from '../requests.service';
@Component({
selector: 'app-displayalladhar', templateUrl: './displayalladhar.component.html',
styleUrls: ['./displayalladhar.component.css']
})
export class DisplayalladharComponent implements OnInit {
requests:Array<Requests>=[]
constructor(public rs:RequestsService) { }
ngOnInit(): void {
this.viewAllRequest();
}
viewAllRequest(){
this.rs.findAllRequest().subscribe({
next:(result:any)=>this.requests=result, error:(error:any)=>console.log(error),
complete:()=>console.log("completed")
})
}
}
```

Login.component.html:

```
<div>
    <h3>Login Page</h3>
    <form [formGroup]="loginRef" (ngSubmit)="signIn()">
        <label>EmailId </label>&nbsp;
        <input type="email" formControlName="emailid"/><br/><br>
        <label>Password </label>&nbsp;
        <input type="password" formControlName="password"/><br/><br>
        <label>Type Of User</label>&nbsp;&nbsp;&nbsp;
        <input type="radio" name="typeOfUser" value="admin"
formControlName="typeOfUser"/>Admin&nbsp;
        <input type="radio" name="typeOfUser" value="user"
formControlName="typeOfUser"/>User<br/><br>
        <input type="submit" class="btn btn-dark" value="SIGNIN">&nbsp;
        <input type="reset" class="btn btn-dark" value="RESET">
    </form>
    <p>New User? <a routerLink="/signup">Click Here</a></p>
    <br/><br>
    <span style="color:red">{{msg}}</span>
</div>
```

Login.component.ts:

```
import { Component, OnInit } from '@angular/core';
import {FormGroup,FormControl} from '@angular/forms';
import { Router } from '@angular/router';
import { LoginService } from '../login.service';
@Component({
selector: 'app-login', templateUrl: './login.component.html', styleUrls:
['./login.component.css']
})
export class LoginComponent implements OnInit {
loginRef = new FormGroup({
emailid:new FormControl(), password:new FormControl(), typeOfUser:new
FormControl()
});
msg:string="";
 constructor(public ls:LoginService,public router:Router) { }
ngOnInit(): void {
}
signIn(){
let login = this.loginRef.value;
console.log(login);
this.ls.signIn(login).subscribe({
next:(result:any)=>{
if(result=="Admin sucessfully login"){
sessionStorage.setItem("userDetails",login.emailid);
//this.router.navigate(["adminHome"])
this.router.navigate(['/admindashboard']);
}else if(result=="User successfully login"){
sessionStorage.setItem("userDetails",login.emailid);
//this.router.navigate(["userHome"])
this.router.navigate(['/userdashboard']);
}else {
this.msg=result;
}
}, error:(error:any)=>console.log(error), complete:()=>console.log("completed")
})
}
}
```

Signup.component.html:

```
<div>
    <h3>Create Account</h3>
    <form [formGroup]="signUpRef" (ngSubmit)="signUp()">
        <label>EmailId </label>&nbsp;
        <input type="email" formControlName="emailid"/><br/><br>
        <label>Password </label>&nbsp;
        <input type="password" formControlName="password"/><br/><br>
        <label>Type Of User</label>&nbsp;&nbsp;&nbsp;
        <input type="radio" name="typeOfUser" value="admin"
formControlName="typeOfUser"/>Admin&nbsp;
        <input type="radio" name="typeOfUser" value="user"
formControlName="typeOfUser"/>User<br/><br>
        <input type="submit" class="btn btn-success" value="SIGNUP">&nbsp;
        <input type="reset" class="btn btn-dark" value="RESET">
    </form>
    <a href="javascript:void(0)" (click)="goBack()">


    <-- Go to Login Page-->
    </a>
    <br/><br>
    <span style="color:red">{{msg}}</span>
    <span style="color:green;">{{user}}</span>
</div>
```

Sinup.component.ts:

```
import { Component, OnInit } from '@angular/core';
import {FormGroup,FormControl} from '@angular/forms';
import { Router } from '@angular/router';
import { LoginService } from '../login.service';
import { timer } from 'rxjs';
import { Location } from '@angular/common';
@Component({
selector: 'app-signup', templateUrl: './signup.component.html', styleUrls:
['./signup.component.css']
})
export class SignupComponent implements OnInit {
signUpRef = new FormGroup({
emailid:new FormControl(), password:new FormControl(), typeOfUser:new
FormControl()
});
msg:string="";
 constructor(public ls:LoginService,public router:Router,private location:
Location) { }
user:string ="";
ngOnInit(): void {
}
signUp(){
let signup = this.signUpRef.value;
console.log(signup);
this.ls.signUp(signup).subscribe({
next:(result:any)=>{
if(result=="Account created successfully"){
this.user="Account created successfully! Redirecting to Login Page...";
timer(5000).subscribe(x => { this.router.navigate(["login"]) })
}
else {
this.msg=result;
}
}, error:(error:any)=>console.log(error), complete:()=>console.log("completed")
})
}
goBack() {
// window.history.back();
this.location.back();
console.log( 'goBack()...' );
}
}
```

Userdashboard.component.html:

```
<div>
    <h4>Welcome to home page {{user}}</h4>
    <a routerLink="storeReq" class="btn btn-primary">Apply For New Aadhar 
    Card</a>&nbsp;&nbsp;&nbsp;&nbsp;|&nbsp;&nbsp;&nbsp;
    <a routerLink="view" class="btn btn-primary">View My Aadhar Card</a>
    <br/>
    <hr/>
    <router-outlet></router-outlet>
    <hr/>
    <br/>
    <input type="button" class="btn btn-dark" value="Apply For Duplicate Card" 
(click)="applydup()"/>&nbsp;&nbsp;
    <input type="button" class="btn btn-dark" value="Apply For Close Adhar Card" 
(click)="closeadhar()"/><br>
    <span style="color:green">{{close}}</span><br>
    <span style="color:green">{{msg}}</span><br><br>
    <input type="button" class="btn btn-dark" value="logout" (click)="logout()"/>
</div>
```

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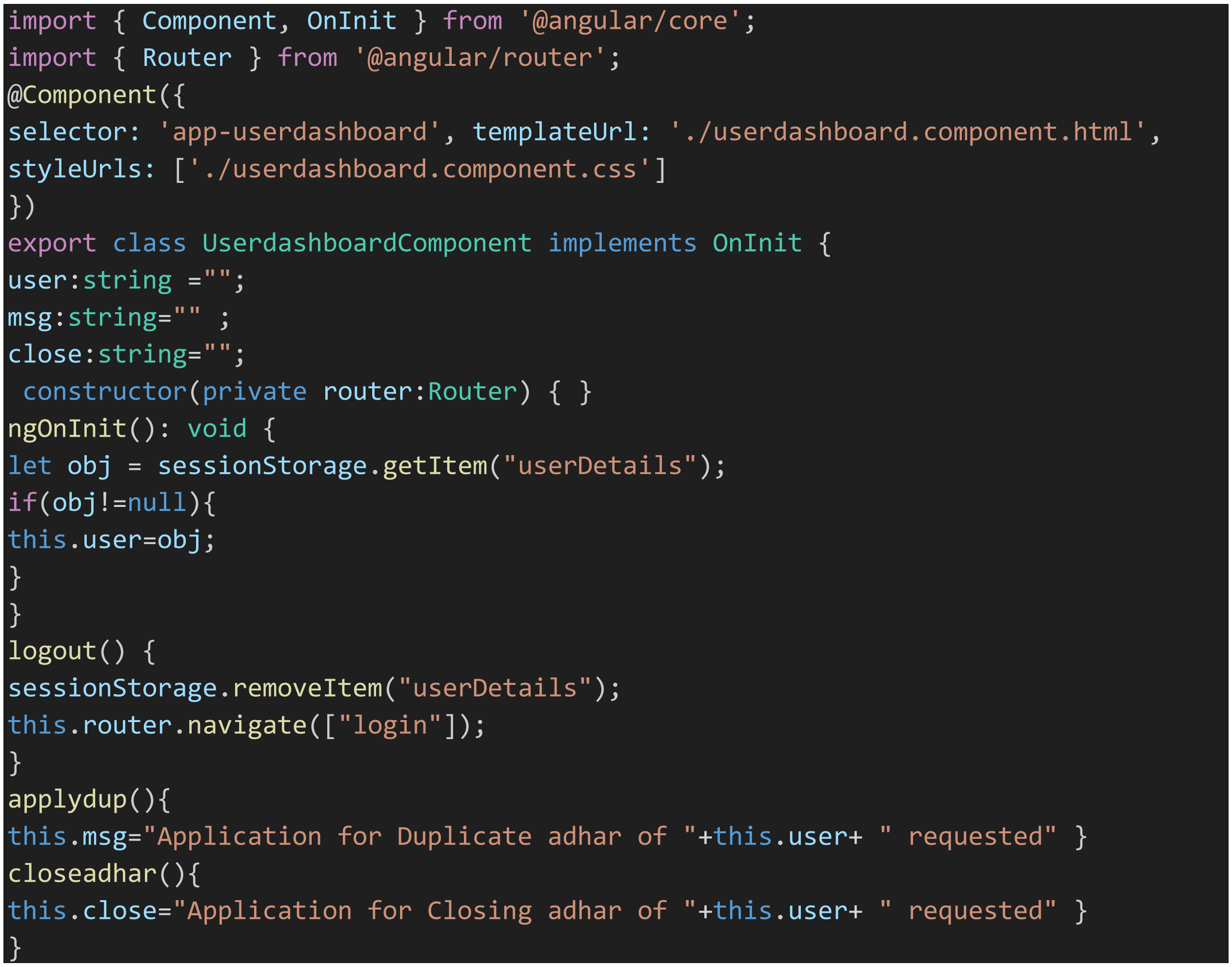
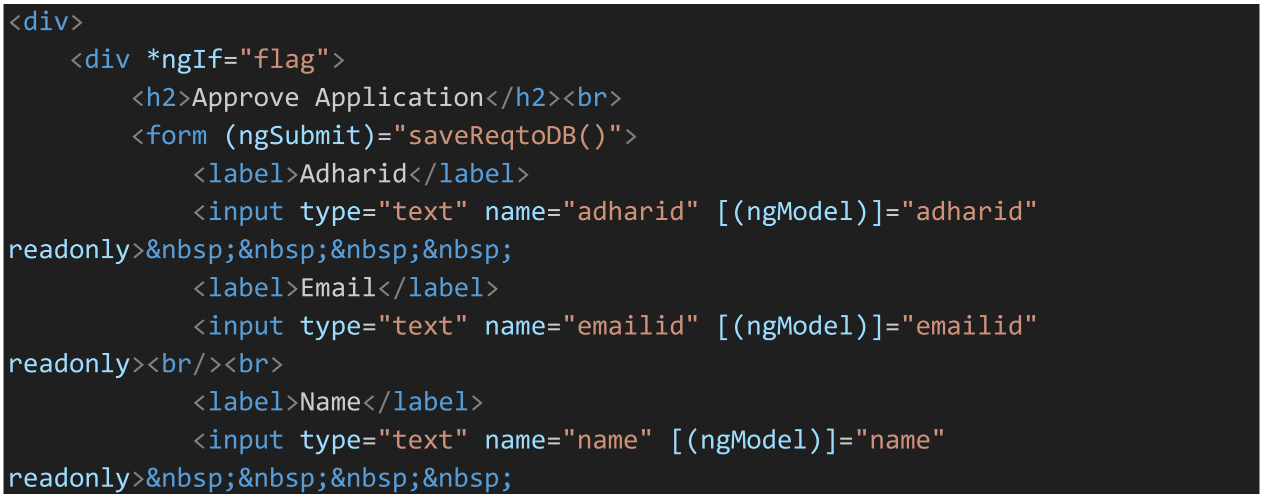
Userdashboard.component.ts:



```
import { Component, OnInit } from '@angular/core';
import { Router } from '@angular/router';
@Component({
selector: 'app-userdashboard', templateUrl: './userdashboard.component.html',
styleUrls: ['./userdashboard.component.css']
})
export class UserdashboardComponent implements OnInit {
user:string ="";
msg:string="" ;
close:string="";
 constructor(private router:Router) { }
ngOnInit(): void {
let obj = sessionStorage.getItem("userDetails");
if(obj!=null){
this.user=obj;
}
}
logout() {
sessionStorage.removeItem("userDetails");
this.router.navigate(["login"]);
}
applydup(){
this.msg="Application for Duplicate adhar of "+this.user+ " requested" }
closeadhar(){
this.close="Application for Closing adhar of "+this.user+ " requested" }
}
```

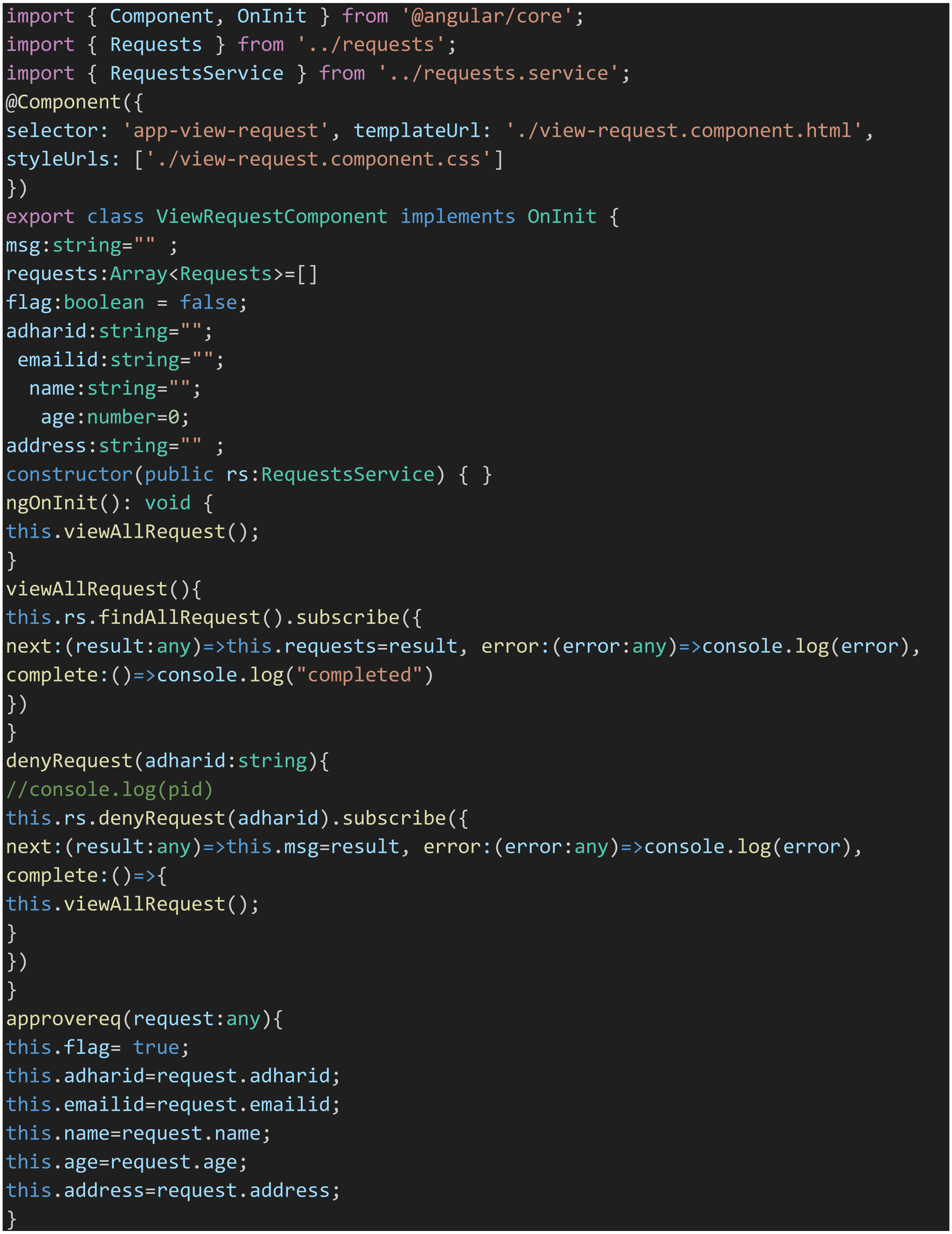
View-request.component.html:



```
<div>
    <div *ngIf="flag">
        <h2>Approve Application</h2><br>
        <form (ngSubmit)="saveReqtoDB()">
            <label>Adharid</label>
            <input type="text" name="adharid" [(ngModel)]="adharid"
readonly>&nbsp;&nbsp;&nbsp;&nbsp;
            <label>Email</label>
            <input type="text" name="emailid" [(ngModel)]="emailid"
readonly><br/><br>
            <label>Name</label>
            <input type="text" name="name" [(ngModel)]="name"
readonly>&nbsp;&nbsp;&nbsp;&nbsp;
```

```
            <label>Age</label>
            <input type="number" name="age" [(ngModel)]="age"
readonly>&nbsp;&nbsp;&nbsp;&nbsp;
            <label>Address</label>
            <input type="text" name="address" [(ngModel)]="address"
readonly><br/><br>
            <input type="submit" class="btn btn-success" value="Approve
Request"/>&nbsp;&nbsp;
            <input type="reset" class="btn btn-dark" value="reset"/><br/>
        </form><br/>
    </div>
    <span *ngFor="let r of requests">
    <!-- <span>{{r.adharid}} {{r.emailid}}</span>
    <input type="button" value="DENY REQUEST" (click)="denyRequest(r.adharid)"/>
    <input type="button" value="APPROVE REQUEST" (click)="approvereq(r)"/> -->
    <div class="container">
        <table class="table">
            <tr>
            <th>Email ID</th>
            <th>Name</th>&nbsp;&nbsp;&nbsp;
            <th>Age</th>&nbsp;
            <th>Address</th>&nbsp;
            <th>Aadhar ID</th>
            </tr>
            <br>
            <tr>
            <td>{{r.emailid}}</td>
            <td>{{r.name}}</td>&nbsp;
            <td>{{r.age}}</td>&nbsp;
            <td>{{r.address}}</td>&nbsp;
            <td>{{r.adharid}}</td>
            <td><input type="button" value="DENY REQUEST"
(click)="denyRequest(r.adharid)"/>&nbsp;&nbsp;&nbsp;
            <input type="button" value="APPROVE REQUEST"
(click)="approvereq(r)"/></td>
            </tr>
        </table>
        <hr><br>
    </div>
    </span>
    <br/><br>
    <span style="color:red">{{msg}}</span>
</div>
```

View-request.component.ts:



```
import { Component, OnInit } from '@angular/core';
import { Requests } from '../requests';
import { RequestsService } from '../requests.service';
@Component({
selector: 'app-view-request', templateUrl: './view-request.component.html',
styleUrls: ['./view-request.component.css']
})
export class ViewRequestComponent implements OnInit {
msg:string="" ;
requests:Array<Requests>=[]
flag:boolean = false;
adharid:string="";
 emailid:string="";
  name:string="";
   age:number=0;
address:string="" ;
constructor(public rs:RequestsService) { }
ngOnInit(): void {
this.viewAllRequest();
}
viewAllRequest(){
this.rs.findAllRequest().subscribe({
next:(result:any)=>this.requests=result, error:(error:any)=>console.log(error),
complete:()=>console.log("completed")
})
}
denyRequest(adharid:string){
//console.log(pid)
this.rs.denyRequest(adharid).subscribe({
next:(result:any)=>this.msg=result, error:(error:any)=>console.log(error),
complete:()=>{
this.viewAllRequest();
}
})
}
approvereq(request:any){
this.flag= true;
this.adharid=request.adharid;
this.emailid=request.emailid;
this.name=request.name;
this.age=request.age;
this.address=request.address;
}
saveReqtoDB(){
let request =
{adharid:this.adharid,emailid:this.emailid,name:this.name,age:this.age,address:this.address};
this.rs.approvereq(request).subscribe({
next:(result:any)=>this.msg=result, error:(error:any)=>console.log(error),
complete:()=>{"completed" }
})
this.flag=false;
}
}
```

Viewadhar.component.html:

```
<div>
    <div>
        <img
src="https://th.bing.com/th?id=OIP.EuSs2mt8_wWanCLxD8kgLgHaHb&w=249&h=250&c=8&rs=1&qlt=90&o=6&dpr=1.3&pid=3.1&rm=2" alt="" srcset="" />
        <div class="">
            <h4>Name:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;{{ myadhar.name }}</h4>
        </div>
        <div class="">
            <h4>Age:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;{{ myadhar.age }}</h4>
        </div>
        <div class="">
            <h4>Address:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;{{ myadhar.address }}</h4>
        </div>
        <div class="">
            <h6>
                &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;{{
                myadhar.adharid
                }}
            </h6>
        </div>
    </div>
    <br />
    <span style="color: green">{{ msg }}</span><br />
    <input
    type="button" class="btn btn-dark" value="Update My Aadhar"
(click)="approvereq(myadhar)" /><br /><br />
    <div *ngIf="flag">
        <form (ngSubmit)="saveReqtoDB()">
```

```
            <label>Adharid</label>&nbsp;&nbsp;
            <input type="text" name="adharid"
            [(ngModel)]="myadhar.adharid" readonly
            />&nbsp;&nbsp;&nbsp; <label>Email</label>&nbsp;&nbsp;
            <input type="text" name="emailid"
            [(ngModel)]="myadhar.emailid" readonly/>
            <br /><br />
            <label>Name</label>&nbsp;&nbsp;
            <input type="text" name="name"
            [(ngModel)]="myadhar.name" />&nbsp;&nbsp;&nbsp;
<label>Age</label>&nbsp;&nbsp;
            <input type="number" name="age"
            [(ngModel)]="myadhar.age" />&nbsp;&nbsp;&nbsp;
<label>Address</label>&nbsp;&nbsp;
            <input type="text" name="address"
            [(ngModel)]="myadhar.address" /><br /><br />
            <input type="submit" class="btn btn-dark" value="Update"
/>&nbsp;&nbsp;&nbsp;&nbsp;
            <input type="reset" class="btn btn-dark" value="reset" /><br />
        </form>
        <br />
    </div>
</div>
```

Viewadhar.component.ts:

```
import { Component, OnInit } from '@angular/core';
import { Requests } from '../requests';
import { RequestsService } from '../requests.service';
@Component({
selector: 'app-viewadhar', templateUrl: './viewadhar.component.html', styleUrls:
['./viewadhar.component.css']
})
export class ViewadharComponent implements OnInit {
msg:string="";
 requests:Array<Requests>=[]
myadhar:any
flag:boolean = false;
adharid:string="" ;
emailid:string="" ;
name:string="";
 age:number=0;
address:string="";
 constructor(public rs:RequestsService) { }
ngOnInit(): void {
let obj = sessionStorage.getItem("userDetails");
if(obj!=null){
this.emailid=obj;
}
this.viewmyadhar(this.emailid);
}
approvereq(request:any){
this.flag= true;
this.adharid=request.adharid;
this.emailid=request.emailid;
this.name=request.name;
this.age=request.age;
this.address=request.address;
}
viewmyadhar(emailid:string){
this.rs.viewmyAdhar(this.emailid).subscribe({
next:(result:any)=>this.myadhar=JSON.parse(result),
error:(error:any)=>console.log(error), complete:()=>console.log("completed")
})
}
saveReqtoDB(){
let request =
{adharid:this.adharid,emailid:this.emailid,name:this.name,age:this.age,address:this.address};
this.rs.updateAdhar(request).subscribe({
next:(result:any)=>this.msg=result, error:(error:any)=>console.log(error),
complete:()=>{"completed" }
})
this.flag=false;
}
}
```

App.component.html:

```
<div align="center">
  <h2 align="left" >
  <img
src="https://th.bing.com/th?id=OIP.EuSs2mt8_wWanCLxD8kgLgHaHb&w=249&h=250&c=8&rs=1&qlt=90&o=6&dpr=1.3&pid=3.1&rm=2" alt="logo" height="100px" />
  <br><b><em>mAadhar
  Application</em></b> </h2>
  <hr />
  <router-outlet></router-outlet>
  </div>
```

App.component.ts:

```
import { Component } from '@angular/core';
@Component({
selector: 'app-root', templateUrl: './app.component.html', styleUrls:
['./app.component.css']
})
export class AppComponent {
title = 'mAadharFrontend-app';
}
```

App.module.ts:

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import {HttpClientModule} from '@angular/common/http';
import {FormsModule,ReactiveFormsModule} from '@angular/forms';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { LoginComponent } from './login/login.component';
import { SignupComponent } from './signup/signup.component';
import { UserdashboardComponent } from './userdashboard/userdashboard.component';
import { AdmindashboardComponent } from
'./admindashboard/admindashboard.component';
import { AddRequestComponent } from './add-request/add-request.component';
import { ViewRequestComponent } from './view-request/view-request.component';
import { ViewadharComponent } from './viewadhar/viewadhar.component';
import { DisplayalladharComponent } from
'./displayalladhar/displayalladhar.component';
@NgModule({
declarations: [
AppComponent, LoginComponent, SignupComponent, UserdashboardComponent,
AdmindashboardComponent, AddRequestComponent, ViewRequestComponent,
ViewadharComponent, DisplayalladharComponent, ],imports: [
BrowserModule, AppRoutingModule,HttpClientModule,FormsModule,ReactiveFormsModule
],providers: [],
bootstrap: [AppComponent],
})
export class AppModule { }
```

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Login.service.ts:

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
@Injectable({
providedIn: 'root' })
export class LoginService {
baseURL:string ="http://localhost:8082/login";
constructor(public http:HttpClient) { }
signIn(login:any):Observable<string> {
return this.http.post(this.baseURL+"/signIn",login,{responseType:"text"});
}
signUp(login:any):Observable<string> {
return this.http.post(this.baseURL+"/signUp",login,{responseType:"text"});
}
}
```

Request.service.ts:

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
import { Requests } from './requests';
@Injectable({
providedIn: 'root' })
export class RequestsService {
baseUrl:string ="http://localhost:8082/request" ;
constructor(public http:HttpClient) { }
storeRequest(requests:any):Observable<string> {
return this.http.post(this.baseUrl+"/apply",requests,{responseType:"text"});
}
findAllRequest():Observable<Requests[]> {
return this.http.get<Requests[]>(this.baseUrl+"/viewAllRequest");
}
denyRequest(adharid:string):Observable<string> {
return this.http.delete(this.baseUrl+"/deny/"+adharid,{responseType:"text"});
}
approvereq(request:any):Observable<string> {
return this.http.patch(this.baseUrl+"/approve",request,{responseType:"text"});
}
viewmyAdhar(emailid:String):Observable<string> {
return this.http.get(this.baseUrl+"/viewmyadhar/"+emailid,{responseType:"text"});
}
updateAdhar(request:any):Observable<string> {
return
this.http.patch(this.baseUrl+"/updateadhar",request,{responseType:"text"});
}
}
```

Request.ts

```
export class Requests {
    adharid: string;
    emailid: string;
    name: string;
    age: number;
    address: string;
  }
```

App-routing.module.ts

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

import { LoginComponent } from './login/login.component';
import { UserdashboardComponent } from './userdashboard/userdashboard.component';
import { AdmindashboardComponent } from
'./admindashboard/admindashboard.component';
import { SignupComponent } from './signup/signup.component';
import { AddRequestComponent } from './add-request/add-request.component';
import { DisplayalladharComponent } from
'./displayalladhar/displayalladhar.component';
import { ViewRequestComponent } from './view-request/view-request.component';
import { ViewadharComponent } from './viewadhar/viewadhar.component';

const routes: Routes = [
  { path: '', redirectTo: '/login', pathMatch: 'full' },
  { path: 'login', component: LoginComponent },
  { path: 'signup', component: SignupComponent },
  { path: 'admindashboard', component: AdmindashboardComponent },
  {path:  'add-request', component:AddRequestComponent},
  {path:  'displayalladhar', component:DisplayalladharComponent},
  {path:  'view-request', component:ViewRequestComponent},
  {path:  'viewadhar', component:ViewadharComponent},
  { path: 'userdashboard', component: UserdashboardComponent }
];

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

BACK-END

MAadharbackendAppApplication.java:

```
package com;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.boot.autoconfigure.domain.EntityScan;
import org.springframework.data.jpa.repository.config.EnableJpaRepositories;

@SpringBootApplication(scanBasePackages = "com")
@EntityScan(basePackages = "com.mAadhar.bean")
@EnableJpaRepositories(basePackages = "com.mAadhar.repository")
public class MAadharbackendAppApplication {

	public static void main(String[] args) {
		SpringApplication.run(MAadharbackendAppApplication.class, args);
		System.out.println("Server Running on 9191");
	}

}
```

Login.java:

```
package com.mAadhar.bean;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Id;

@Entity
public class Login {
	@Id
	private String emailid;
	private String password;
	@Column(name = "typeofuser")
	private String typeOfUser;
	public String getEmailid() {
        return emailid;
    }
    public void setEmailid(String emailid) {
        this.emailid = emailid;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getTypeOfUser() {
        return typeOfUser;
    }
    public void setTypeOfUser(String typeOfUser) {
        this.typeOfUser = typeOfUser;
    }

}
```

Requests.java:

```
package com.mAadhar.bean;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

import org.hibernate.annotations.GenericGenerator;
@Entity
public class Requests {

    @GeneratedValue(generator = "uuid")
    @GenericGenerator(name = "uuid", strategy = "uuid")
    @Column(columnDefinition = "CHAR(32)")
    @Id
    private String adharid;
    private String emailid;
    private String name;
    private int age;
    private String address;
    public String getEmailid() {
        return emailid;
    }
    public void setEmailid(String emailid) {
        this.emailid = emailid;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public int getAge() {
        return age;
    }
    public void setAge(int age) {
        this.age = age;
    }
    public String getAddress() {
        return address;
    }
    public void setAddress(String address) {
        this.address = address;
    }
    public String getAdharid() {
        return adharid;
    }
    public void setAdharid(String adharid) {
        this.adharid = adharid;
    }
    @Override
    public String toString() {
        return "Requests [adharid=" + adharid + ", emailid=" + emailid + ", name=" + name + ", age=" +
age
                + ", address=" + address + "]";
    }


}
```

LoginController.java:

```
package com.mAadhar.controller;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.MediaType;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.mAadhar.bean.Login;
import com.mAadhar.service.LoginService;

@RestController
@RequestMapping("login")
@CrossOrigin
public class LoginController {

    @Autowired
    LoginService loginservice;
```

```java
    @PostMapping(value = "signIn", consumes = MediaType.APPLICATION_JSON_VALUE)
    public String signIn(@RequestBody Login login) {
        return loginservice.signIn(login);

    }

    @PostMapping(value = "signUp", consumes = MediaType.APPLICATION_JSON_VALUE)
    public String signUp(@RequestBody Login login) {
        return loginservice.signUp(login);
    }
}
```

RequestController.java:

```java
package com.mAadhar.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.MediaType;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.mAadhar.bean.Requests;
import com.mAadhar.service.RequestService;

@RestController
@RequestMapping("request")
@CrossOrigin
public class RequestController {

    @Autowired
    RequestService reqservice;

    @PostMapping(value = "apply",consumes = MediaType.APPLICATION_JSON_VALUE)
    public String requestadhar(@RequestBody Requests req) {
        return reqservice.storeRequest(req);
    }

    @GetMapping(value="viewAllRequest",produces = MediaType.APPLICATION_JSON_VALUE)
    public List<Requests> getAllReq() {
        return reqservice.getAllRequests();
    }
```

```
	@DeleteMapping(value="deny/{adharid}")
	public String deleteReq(@PathVariable("adharid") String adharid) {
		return reqservice.denyRequest(adharid);
	}
	@PatchMapping(value = "approve",consumes = MediaType.APPLICATION_JSON_VALUE)
	public String approveRequest(@RequestBody Requests req) {
		return reqservice.approveRequest(req);
	}

	@PatchMapping(value = "updateadhar",consumes = MediaType.APPLICATION_JSON_VALUE)
	public String updateadhar(@RequestBody Requests req) {
		return reqservice.updateAdhar(req);
	}

	@GetMapping(value="viewmyadhar/{emailid}",produces = MediaType.APPLICATION_JSON_VALUE)
	public Requests viewmyAdhar(@PathVariable("emailid") String emailid) {
		return reqservice.viewmyAdhar(emailid);
	}
}
```

LoginRepository.java:

```
package com.mAadhar.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.mAadhar.bean.Login;

@Repository
public interface LoginRepository extends JpaRepository<Login, String>{

}
```

RequestRepository.java:

```
package com.mAadhar.repository;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.data.repository.query.Param;
import org.springframework.stereotype.Repository;

import com.mAadhar.bean.Requests;

@Repository
public interface RequestRepository extends JpaRepository<Requests, String>{

	//JPQL
		@Query("select r from Requests r where r.emailid = :emailid")
		public Requests viewmyAdhar(@Param("emailid") String emailid);
}
```

LoginService.java:

```
package com.mAadhar.service;

import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.mAadhar.bean.Login;
import com.mAadhar.repository.LoginRepository;

@Service
public class LoginService {

    @Autowired
    LoginRepository loginRepository;
    public String signIn(Login login) {
        Optional<Login> result = loginRepository.findById(login.getEmailid());
        if(result.isPresent()) {
                    Login ll = result.get();
                    if(ll.getPassword().equals(login.getPassword())) {

                        if(login.getTypeOfUser().equals(ll.getTypeOfUser())) {
                            if(login.getTypeOfUser().equals("admin")) {
                                return "Admin sucessfully login";
                            }
                            else{
                                return "User successfully login";
                        }
                        }else {
                            return "Invalid Credentials! Try Again!";
                        }
                    }else {
                        return "Invalid Password! Try Again!";
                    }
        }else{
            return "Invalid EmailId! Try Again!";
        }
    }

    public String signUp(Login login) {
        Optional<Login> result = loginRepository.findById(login.getEmailid());
        if(result.isPresent()) {
                    return "Email Id alreay exist";
        }else {
            if(login.getTypeOfUser().equals("admin")) {
                return "You can't create admin account";
            }else {
                loginRepository.save(login);
                return "Account created successfully";
            }
            }
    }
}
```

RequestService.java:

```
package com.mAadhar.service;

import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.mAadhar.bean.Requests;
import com.mAadhar.repository.RequestRepository;

@Service
public class RequestService {

    @Autowired
    RequestRepository reqrepo;

    public String storeRequest(Requests req) {
        reqrepo.save(req);
        return "Aadhar Application Request Submitted";
    }

    public List<Requests> getAllRequests() {
        return reqrepo.findAll();
    }

    public String denyRequest(String adharid) {
        Optional<Requests> result  = reqrepo.findById(adharid);
        if(result.isPresent()) {
            Requests p = result.get();
            reqrepo.delete(p);
            return "Application Denied";
        }else {
            return "Application not present";
        }
    }
    public String approveRequest(Requests req) {
        Optional<Requests> result  = reqrepo.findById(req.getAdharid());
        if(result.isPresent()) {
            Requests p = result.get();
            reqrepo.saveAndFlush(p);
            return "Application Approved";
        }else {
            return "Application not present";
        }
    }
    public String updateAdhar(Requests req) {
        Optional<Requests> result  = reqrepo.findById(req.getAdharid());
        if(result.isPresent()) {
            Requests p = result.get();
            p.setAge(req.getAge());
            p.setName(req.getName());
            p.setAddress(req.getAddress());
            reqrepo.saveAndFlush(p);
            return "Aadhar Card Updation Requested";
        }else {
            return "Aadhar not present";
        }
    }

    public Requests viewmyAdhar(String emailid) {
        return reqrepo.viewmyAdhar(emailid);
    }
}
```

Application.properties:

```
spring.datasource.username=root
spring.datasource.password=Kiran@1312
spring.datasource.url=jdbc:mysql://localhost:3306/maadhar
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
server.port=8082
```

TESTING:

MAadharbackendAppApplicationTests.java:

```
package com;

import org.junit.jupiter.api.Test;
import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest
class MAadharbackendAppApplicationTests {

    @Test
    void contextLoads() {
    }

}
```

LoginServiceTest.java:

```
package com.mAadhar.testing;

import org.testng.annotations.Test;
import io.github.bonigarcia.wdm.WebDriverManager;

import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeTest;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterTest;

public class LoginServiceTest {
        WebDriver driver;
 @BeforeTest
 public void config() {
         WebDriverManager.chromedriver().setup();
                 driver=new ChromeDriver();
                 driver.manage().window().maximize();

 }

 @AfterTest
 public void afterClass() {
         driver.close();
 }


 @Test
 public void signInTest() {
         driver.get("http://localhost:4200/login");

 }

 @Test
 public void signUpTest() {
         driver.get("http://localhost:4200/signup");

 }
}
```

RequestServiceTest.java:

```
package com.mAadhar.testing;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeTest;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
```

EMP No: 2577108
Name: Pramod

```
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterTest;

public class RequestServiceTest {
        WebDriver driver;

         @BeforeTest
         public void config() {
                 WebDriverManager.chromedriver().setup();
                        driver=new ChromeDriver();
                        driver.manage().window().maximize();

         }

 @AfterTest
 public void afterClass() {
         driver.close();
 }


 @Test
 public void approveRequestTest() {
         driver.get("http://localhost:4200/approve");

 }

 @Test
 public void denyRequestTest() {
         driver.get("http://localhost:4200/deny");

 }

 @Test
 public void getAllRequestsTest() {
         driver.get("http://localhost:4200/veiwAll");

 }

 @Test
 public void storeRequestTest() {
         driver.get("http://localhost:4200/apply");

 }

 @Test
 public void updateAdharTest() {
         driver.get("http://localhost:4200/updateaadhar");

 }

 @Test
 public void viewmyAdharTest() {
         driver.get("http://localhost:4200/viewmyadhar");
 }
}
```

Docker File:

```
FROM openjdk:8
COPY target/mAadharbackend-app-0.0.1-SNAPSHOT.jar .
CMD ["java", "-jar", "mAadharbackend-app-0.0.1-SNAPSHOT.jar"]
```

Pom.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<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>
        <parent>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-starter-parent</artifactId>
                <version>2.6.12</version>
                <relativePath/> <!-- lookup parent from repository -->
        </parent>
        <groupId>com.example</groupId>
        <artifactId>mAadharbackend-app</artifactId>
        <version>0.0.1-SNAPSHOT</version>
        <name>mAadharbackend-app</name>
        <description>Demo project for Spring Boot</description>
        <properties>
                <java.version>11</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>io.github.bonigarcia</groupId>
   <artifactId>webdrivermanager</artifactId>
   <version>5.3.0</version>
</dependency>
                <dependency>
                        <groupId>org.springframework.boot</groupId>
                        <artifactId>spring-boot-devtools</artifactId>
                        <scope>runtime</scope>
                        <optional>true</optional>
                </dependency>
        <dependency>
            <groupId>mysql</groupId>
            <artifactId>mysql-connector-java</artifactId>
            <scope>runtime</scope>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
        <dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>4.2.1</version>
</dependency>
<dependency>
  <groupId>org.testng</groupId>
  <artifactId>testng</artifactId>
  <version>7.5</version>
  <scope>test</scope>
</dependency>
<dependency>
            <groupId>org.projectlombok</groupId>
            <artifactId>lombok</artifactId>
            <optional>true</optional>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
                <configuration>
                    <excludes>
                        <exclude>
                            <groupId>org.projectlombok</groupId>
                            <artifactId>lombok</artifactId>
                        </exclude>
                    </excludes>
                </configuration>
            </plugin>
 </plugins>
    </build>

</project>
```

Testing.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.mAadhar.testing.LoginServiceTest"/>
      <class name="com.mAadhar.testing.RequestServiceTest"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```

MySql:

```
create database mAadhar;

use mAadhar;
```