**Source Code**

**Login.java**

package com.m\_aadhar.bean;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class Login {

@Id

private String emailid;

@GeneratedValue(strategy = GenerationType.AUTO)

private int id;

private String password;

@Column(name = "typeofuser")

private String typeOfUser;

private String name;

private String address;

private double phone;

private String dob;

public String getEmailid() {

return emailid;

}

public void setEmailid(String emailid) {

this.emailid = emailid;

}

public String getPassword() {

return password;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

public double getPhone() {

return phone;

}

public void setPhone(double phone) {

this.phone = phone;

}

public String getDob() {

return dob;

}

public void setDob(String dob) {

this.dob = dob;

}

public void setPassword(String password) {

this.password = password;

}

public String getTypeOfUser() {

return typeOfUser;

}

public void setTypeOfUser(String typeOfUser) {

this.typeOfUser = typeOfUser;

}

public Login(int id, String emailid, String password, String typeOfUser, String name, String address, double phone,

String dob) {

super();

this.id = id;

this.emailid = emailid;

this.password = password;

this.typeOfUser = typeOfUser;

this.name = name;

this.address = address;

this.phone = phone;

this.dob = dob;

}

public Login() {

super();

// TODO Auto-generated constructor stub

}

@Override

public String toString() {

return "Login [id=" + id + ", emailid=" + emailid + ", password=" + password + ", typeOfUser=" + typeOfUser

+ ", name=" + name + ", address=" + address + ", phone=" + phone + ", dob=" + dob + "]";

}

}

**LoginController.java**

package com.m\_aadhar.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.GetMapping;

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.m\_aadhar.bean.Login;

import com.m\_aadhar.service.LoginService;

@RestController

@RequestMapping("login")

@CrossOrigin

public class LoginController {

@Autowired

LoginService ls;

@GetMapping(value = "note")

public String note() {

return ls.note();

}

@PostMapping(value = "signIn", consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String signIn(@RequestBody Login login) {

System.out.println(login);

return ls.signIn(login);

}

@PostMapping(value = "signUp", consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String signUp(@RequestBody Login login) {

return ls.signUp(login);

}

}

**OperationController.java**

package com.m\_aadhar.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.m\_aadhar.bean.Login;

import com.m\_aadhar.service.LoginService;

@RestController

@RequestMapping("operation")

@CrossOrigin

public class OperationController {

@Autowired

LoginService ls;

@PostMapping(value = "apply", consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String apply(@RequestBody Login login) {

return ls.storeUser(login);

}

@PatchMapping(value = "update", consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String update(@RequestBody Login login) {

return ls.update(login);

}

@GetMapping(value = "getAll",produces = MediaType.APPLICATION\_JSON\_VALUE)

public List<Login> getAllUser(){

return ls.getAll();

}

@GetMapping(value = "getUser/{id}", produces = MediaType.APPLICATION\_JSON\_VALUE)

public List<Login> getOneUser(@PathVariable("id") int id){

return ls.findById(id);

}

@DeleteMapping(value = "delete/{emailid}")

public String deleteUser(@PathVariable("emailid") String emailid){

return ls.delete(emailid);

}

}

**LoginRepository**

package com.m\_aadhar.repository;

import java.util.List;

import java.util.Optional;

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.m\_aadhar.bean.Login;

@Repository

public interface LoginRepository extends JpaRepository<Login, String> {

@Query("select l from Login l where l.id = :id")

public List<Login> userById(@Param("id") int id);

}

**LoginService.java**

package com.m\_aadhar.service;

import java.util.List;

import java.util.Optional;

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

import org.springframework.stereotype.Service;

import com.m\_aadhar.bean.Login;

import com.m\_aadhar.repository.LoginRepository;

@Service

public class LoginService {

@Autowired

LoginRepository lr;

public String signIn(Login login) {

Optional<Login> result = lr.findById(login.getEmailid());

if(result.isPresent()) {

Login ll = result.get();

if(ll.getPassword().equals(login.getPassword())) {

if(login.getTypeOfUser().equals(ll.getTypeOfUser()) && login.getTypeOfUser().equals("admin")) {

return "Admin sucessfully login";

}else if(login.getTypeOfUser().equals(ll.getTypeOfUser()) && login.getTypeOfUser().equals("user")){

return "User successfully login";

}else {

return "Invalid details";

}

}else {

return "InValid password";

}

}else {

return "InValid emailId";

}

}

public String signUp(Login login) {

Optional<Login> result = lr.findById(login.getEmailid());

if(result.isPresent()) {

return "Email Id alreay exists";

}else {

// Login ll = result.get();

if(login.getTypeOfUser().equals("admin")) {

return "You can't create admin account";

}else {

lr.save(login);

return "Account created successfully";

}

}

}

public List<Login> getAll(){

return lr.findAll();

}

public List<Login> findById(int id) {

return lr.userById(id);

}

public String delete(String emailid) {

Optional<Login> result = lr.findById(emailid);

if(result.isPresent()) {

Login l = result.get();

lr.delete(l);

return "User deleted successfully";

}else {

return "User with this id not present";

}

}

public String update(Login login) {

Optional<Login> result = lr.findById(login.getEmailid());

if(result.isPresent()) {

Login l = result.get();

l.setAddress(login.getAddress());

l.setDob(login.getDob());

l.setPhone(login.getPhone());

return "User updated successfully";

}else {

return "User with this id not present";

}

}

public String storeUser(Login login) {

lr.save(login);

return "User applied for aadhar card";

}

public String note() {

return "this is an application";

}

}