import org.springframework.ui.Model;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import com.rab3tech.admin.service.EmployeePersonalService;

import com.rab3tech.vo.EmployeeVO;

@Controller

@RequestMapping("/admin")

public class EmployeeInfoUIController {

@Autowired

private EmployeePersonalService employeePersonalService;

@GetMapping("/employee/info")

//THIS CODE WILL DISPLAY THE FORM TO ENTER INPUT

public String displayinfopage(Model model ) {

EmployeeVO employeeVO = new EmployeeVO();

model.addAttribute("employeeVO" ,employeeVO);

return "admin/employeeInfo";

}

//THIS CODE IS USED TO SEND THE DATA TO DATA BASE FROM AND REFRESH THE PAGE

@PostMapping("/employee/info")

public String postEmployeeInfo(@ModelAttribute EmployeeVO employeeVO , Model model) {

employeePersonalService.save(employeeVO);

EmployeeVO eemployeeVO = new EmployeeVO();

model.addAttribute("employeeVO",eemployeeVO);

model.addAttribute("message", "Employee information is entered sucessfully.");

return "admin/employeeInfo";

}

// THIS CODE WILL DELETE THE EMPLOYEE FROM THE LIST .

@GetMapping("/deleteEmployeeInfo")

public String deleteEmployeeByName(@RequestParam int id, Model model ) {

employeePersonalService.deleteById(id);

List<EmployeeVO> employeeVO = employeePersonalService.findAll();

model.addAttribute("employeeVO" ,employeeVO);

return "redirect:/admin/employee/infolist";

}

// THIS CODE WILL DISPLAY THE LIST FETCHING FROM THE DATA BASE.

@GetMapping("/employee/infolist")

public String displayListofEmpInfo(Model model ) {

model.addAttribute("employeelist", employeePersonalService.findAll()); // we call service layer method here

return "admin/employeeList";

}

package com.rab3tech.admin.service.impl;

import java.util.ArrayList;

import java.util.List;

import java.util.stream.Collectors;

import org.springframework.beans.BeanUtils;

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

import org.springframework.stereotype.Service;

import com.rab3tech.admin.dao.repository.EmployeeInfoRepositoy;

import com.rab3tech.admin.service.EmployeePersonalService;

import com.rab3tech.dao.entity.EmployeeInfoEntity;

import com.rab3tech.vo.EmployeeVO;

@Service

public class EmployeeInfoimpl implements EmployeePersonalService {

@Autowired

private EmployeeInfoRepositoy employeeInfoRepositoy ;

@Override

public void save(EmployeeVO employeeVO) {

EmployeeInfoEntity employeeInfoEntity = new EmployeeInfoEntity();

BeanUtils.copyProperties(employeeVO, employeeInfoEntity);

employeeInfoRepositoy.save(employeeInfoEntity);

}

@Override

public void deleteById(int id) {

employeeInfoRepositoy.deleteById(id);

}

// THIS IS JAVA 8 TO RETRIVE THE DATA FROM THE DATA BASE

@Override

public List<EmployeeVO> findAll(){

List<EmployeeInfoEntity> employeeinfoEntity = employeeInfoRepositoy.findAll();

return employeeinfoEntity.stream().map(employeeList->{

EmployeeVO employeeVO = new EmployeeVO();

BeanUtils.copyProperties(employeeList, employeeVO);

return employeeVO;

}).collect(Collectors.toList());

}

// THIS IS REGULAR METHOD WE CAN USE EITHER ONE.

//THIS LOGIC IS TO RETRIVE THE DATA FROM THE DATA BASE AND TO SHOW INTO THE FRONT END.

// @Override

// public List<EmployeeVO> showEmployeelist(){

// List<EmployeeVO> employeeInfo = new ArrayList<>(); // this is A blank list.

// EmployeeVO employeeVO = (null); // this is also blank list.

// List<EmployeeInfoEntity>employeeEntity= employeeInfoRepositoy.findAll();//data will come here inside the list

//

// for(EmployeeInfoEntity emply:employeeEntity ) {

//

// employeeVO = new EmployeeVO();

// BeanUtils.copyProperties(emply, employeeVO);

// employeeInfo.add(employeeVO);

// }

// return employeeInfo;

// }

}

// THIS IS ANORHER CLASS THIS CLASS IS IMPLEMENTED IN SERVICE LAYER.

package com.rab3tech.admin.service;

import java.util.List;

import com.rab3tech.vo.EmployeeVO;

public interface EmployeePersonalService {

void save(EmployeeVO employeeVO);

List<EmployeeVO> findAll();

void deleteById(int id);

// this IS USED IN REGULAR METHOD NOT IN JAVA 8

// List<EmployeeVO> showEmployeelist();

}

// THIS IS ENTITY CLASS THIS DATA GOES TO THE DATABASE.

package com.rab3tech.dao.entity;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name ="employee\_information")

public class EmployeeInfoEntity {

private int cid;

private String firstname;

private String lastname;

private String address;

private String contactnumber;

private String email;

private String gender;

@Id

@GeneratedValue

public int getCid() {

return cid;

}

public void setCid(int cid) {

this.cid = cid;

}

@Column(length = 150)

public String getFirstname() {

return firstname;

}

public void setFirstname(String firstname) {

this.firstname = firstname;

}

@Column(length = 150)

public String getLastname() {

return lastname;

}

public void setLastname(String lastname) {

this.lastname = lastname;

}

@Column(length = 150)

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

@Column(length = 150)

public String getContactnumber() {

return contactnumber;

}

public void setContactnumber(String contactnumber) {

this.contactnumber = contactnumber;

}

@Column(length = 150)

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

@Column(length = 150)

public String getGender() {

return gender;

}

public void setGender(String gender) {

this.gender = gender;

}

}

// THIS IS REPOSITORY CLASS;

package com.rab3tech.admin.dao.repository;

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

import org.springframework.stereotype.Repository;

import com.rab3tech.dao.entity.EmployeeInfoEntity;

@Repository

public interface EmployeeInfoRepositoy extends JpaRepository<EmployeeInfoEntity, Integer> {

}

**package** com.rab3tech.vo;

**import** lombok.Data;

@Data

**public** **class** EmployeeVO {

**private** **int** cid;

**private** String firstname;

**private** String lastname;

**private** String address;

**private** String contactnumber;

**private** String email;

**private** String gender;

}