EmployeeManagementApp

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

import org.springframework.stereotype.Controller;

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.PathVariable;

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

import com.pentagon.EmployeeSpringBootWebApp.model.Employee;

import com.pentagon.EmployeeSpringBootWebApp.serviceImpl.EmployeeServiceImpl;

EmployeeController.java

@Controller

public class EmployeeController {

@Autowired

private EmployeeServiceImpl employeeServiceImpl;

@GetMapping("/")

public String viewHomePage(Model model) {

model.addAttribute("allemplist", employeeServiceImpl.getAllEmployee());

return "index";

}

@GetMapping("/addnew")

public String addNewEmployee(Model model) {

Employee employee = new Employee();

model.addAttribute("employee", employee);

return "newemployee";

}

@PostMapping("/save")

public String saveEmployee(@ModelAttribute("employee") Employee employee) {

employeeServiceImpl.save(employee);

return "redirect:/";

}

@GetMapping("/showFormForUpdate/{id}")

public String updateForm(@PathVariable(value = "id") long id, Model model) {

Employee employee = employeeServiceImpl.getById(id);

model.addAttribute("employee", employee);

return "update";

}

@GetMapping("/deleteEmployee/{id}")

public String deleteThroughId(@PathVariable(value = "id") long id) {

employeeServiceImpl.deleteViaId(id);

return "redirect:/";

}

}

Employee.java

@Entity

**public** **class** Employee {

@Id

@GeneratedValue(strategy=GenerationType.***IDENTITY***)

**private** **long** id;

**private** String name;

**private** String email;

**private** String dob;

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

@Transient

**private** **int** age;

**private** **double** salary;

**private** **boolean** status;

**public** String getDob() {

**return** dob;

}

**public** **void** setDob(String dob) {

**this**.dob = dob;

}

**public** **double** getSalary() {

**return** salary;

}

**public** **void** setSalary(**double** salary) {

**this**.salary = salary;

}

**public** **boolean** isStatus() {

**return** status;

}

**public** **void** setStatus(**boolean** status) {

**this**.status = status;

}

**public** **long** getId() {

**return** id;

}

**public** **void** setId(**long** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

}

EmployeeRepository.java(interface)

@Repository

**public** **interface** EmployeeRepository **extends** JpaRepository<Employee,Long> {

}

EmployeeService.java

import java.util.List;

import com.pentagon.EmployeeSpringBootWebApp.model.Employee;

public interface EmployeeServices {

List<Employee> getAllEmployee();

void save(Employee employee);

Employee getById(Long id);

void deleteViaId(long id);

}

@Service

**public** **class** EmployeeServiceImpl {

@Autowired **private** EmployeeRepository empRepo;

**public** List<Employee> getAllEmployee()

{

**return** empRepo.findAll();

}

**public** **void** save(Employee employee)

{

empRepo.save(employee);

}

**public** Employee getById(Long id)

{

Optional<Employee> optional = empRepo.findById(id);

Employee employee = **null**;

**if** (optional.isPresent())

employee = optional.get();

**else**

**throw** **new** RuntimeException(

"Employee not found for id : " + id);

**return** employee;

}

**public** **void** deleteViaId(**long** id)

{

empRepo.deleteById(id);

}

}

Index.html

<!DOCTYPE html>

<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>

<meta charset="ISO-8859-1">

<title>Employee</title>

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"

integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"

crossorigin="anonymous">

</head>

<body>

<div class="container my-2" align="center">

<h3>Employee List</h3>

<a th:href="@{/addnew}" class="btn btn-primary btn-sm mb-3" >Add Employee</a>

<table style="width:80%" border="1"

class = "table table-striped table-responsive-md">

<thead>

<tr>

<th>Name</th>

<th>Email</th>

<th>dob</th>

<th>salary</th>

<th>status</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<tr th:each="employee:${allemplist}">

<td th:text="${employee.name}"></td>

<td th:text="${employee.email}"></td>

<td th:text="${employee.dob}"></td>

<td th:text="${employee.salary}"></td>

<td th:text="${employee.status}"></td>

<td> <a th:href="@{/showFormForUpdate/{id}(id=${employee.id})}"

class="btn btn-primary">Update</a>

<a th:href="@{/deleteEmployee/{id}(id=${employee.id})}"

class="btn btn-danger">Delete</a>

</td>

</tr>

</tbody>

</table>

</div>

</body>

</html>

Newemployee.java

<!DOCTYPE html>

<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>

<meta charset="ISO-8859-1">

<title>Employee Management System</title>

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"

integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"

crossorigin="anonymous">

</head>

<body>

<div class="container">

<h1>Employee Management System</h1>

<hr>

<h2>Save Employee</h2>

<form action="#" th:action="@{/save}" th:object="${employee}"

method="POST">

<input type="text" th:field="\*{name}" placeholder="Employee Name"

class="form-control mb-4 col-4">

<input type="text"

th:field="\*{email}" placeholder="Employee Email"

class="form-control mb-4 col-4">

<input type="text" th:field="\*{dob}" placeholder="Employee DOB"

class="form-control mb-4 col-4">

<input type="text" th:field="\*{salary}" placeholder="Employee salary"

class="form-control mb-4 col-4">

<input type="text" th:field="\*{status}" placeholder="Employee status"

class="form-control mb-4 col-4">

<button type="submit" class="btn btn-info col-2">Save

Employee</button>

</form>

<hr>

<a th:href="@{/}"> Back to Employee List</a>

</div>

</body>

</html>

Update.html

<!DOCTYPE html>

<html lang="en" xmlns:th="http://www.thymeleaf.org">

<head>

<meta charset="ISO-8859-1">

<title>Employee Management System</title>

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css">

</head>

<body>

<div class="container">

<h1>Employee Management System</h1>

<hr>

<h2>Update Employee</h2>

<form action="#" th:action="@{/save}" th:object="${employee}"

method="POST">

<!-- Add hidden form field to handle update -->

<input type="hidden" th:field="\*{id}" />

<input type="text" th:field="\*{Name}" class="form-control mb-4 col-4">

<input type="text" th:field="\*{email}" class="form-control mb-4 col-4">

<input type="text" th:field="\*{Name}" class="form-control mb-4 col-4">

<input type="text" th:field="\*{dob}" class="form-control mb-4 col-4">

<input type="text" th:field="\*{salary}" class="form-control mb-4 col-4">

<input type="text" th:field="\*{status}" class="form-control mb-4 col-4">

<button type="submit" class="btn btn-info col-2"> Update Employee</button>

</form>

<hr>

<a th:href = "@{/}"> Back to Employee List</a>

</div>

</body>

</html>

Application.properties

spring.jpa.hibernate.ddl-auto=update

spring.datasource.url=jdbc:mysql://${MYSQL\_HOST:localhost}:3306/employee\_db

spring.datasource.username=root

spring.datasource.password=root123

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

#spring.jpa.show-sql: true