EXERCISE 3

REPOSITORY INTERFACE  
package com.example.EmployeeManagementSystem.repository;

import com.example.EmployeeManagementSystem.model.Employee;

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

public interface EmployeeRepository extends JpaRepository<Employee, Long> {

List<Employee> findByDepartmentId(Long departmentId);

List<Employee> findByNameContaining(String name);

}

DEPARTMENT REPOSITORY  
package com.example.EmployeeManagementSystem.repository;

import com.example.EmployeeManagementSystem.model.Department;

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

public interface DepartmentRepository extends JpaRepository<Department, Long> {

Department findByName(String name);

}

Using these repositories

package com.example.EmployeeManagementSystem.service;

import com.example.EmployeeManagementSystem.model.Employee;

import com.example.EmployeeManagementSystem.repository.EmployeeRepository;

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

import org.springframework.stereotype.Service;

import java.util.List;

@Service

public class EmployeeService {

@Autowired

private EmployeeRepository employeeRepository;

public List<Employee> getAllEmployees() {

return employeeRepository.findAll();

}

public Employee getEmployeeById(Long id) {

return employeeRepository.findById(id).orElse(null);

}

public Employee saveEmployee(Employee employee) {

return employeeRepository.save(employee);

}

public List<Employee> getEmployeesByDepartment(Long departmentId) {

return employeeRepository.findByDepartmentId(departmentId);

}

public List<Employee> searchEmployeesByName(String name) {

return employeeRepository.findByNameContaining(name);

}

public void deleteEmployee(Long id) {

employeeRepository.deleteById(id);

}

}