package com.example.employeemanagementsystem.repository;

import com.example.employeemanagementsystem.Employee;

import org.springframework.data.domain.Page;

import org.springframework.data.domain.Pageable;

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

public interface EmployeeRepository extends JpaRepository<Employee, Long> {

// Paginated list of all employees

Page<Employee> findAll(Pageable pageable);

// Paginated list of employees by department name

Page<Employee> findByDepartmentName(String departmentName, Pageable pageable);

}

package com.example.employeemanagementsystem.controller;

import com.example.employeemanagementsystem.Employee;

import com.example.employeemanagementsystem.service.EmployeeService;

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

import org.springframework.data.domain.Page;

import org.springframework.data.domain.Pageable;

import org.springframework.data.domain.Sort;

import org.springframework.data.web.PageableDefault;

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

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

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

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

@RestController

@RequestMapping("/api/employees")

public class EmployeeController {

@Autowired

private EmployeeService employeeService;

// Get all Employees with Pagination and Sorting

@GetMapping

public Page<Employee> getAllEmployees(

@PageableDefault(size = 10, sort = "name", direction = Sort.Direction.ASC) Pageable pageable

) {

return employeeService.getAllEmployees(pageable);

}

// Get Employees by Department Name with Pagination and Sorting

@GetMapping("/by-department")

public Page<Employee> getEmployeesByDepartment(

@RequestParam String departmentName,

@PageableDefault(size = 10, sort = "name", direction = Sort.Direction.ASC) Pageable pageable

) {

return employeeService.getEmployeesByDepartmentName(departmentName, pageable);

}

}

package com.example.employeemanagementsystem.service;

import com.example.employeemanagementsystem.Employee;

import com.example.employeemanagementsystem.repository.EmployeeRepository;

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

import org.springframework.data.domain.Page;

import org.springframework.data.domain.Pageable;

import org.springframework.stereotype.Service;

@Service

public class EmployeeService {

@Autowired

private EmployeeRepository employeeRepository;

// Get all Employees with Pagination and Sorting

public Page<Employee> getAllEmployees(Pageable pageable) {

return employeeRepository.findAll(pageable);

}

// Get Employees by Department Name with Pagination and Sorting

public Page<Employee> getEmployeesByDepartmentName(String departmentName, Pageable pageable) {

return employeeRepository.findByDepartmentName(departmentName, pageable);

}

}