EmployeeManagementSystemApplication.java

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.data.jpa.repository.config.EnableJpaAuditing;

@SpringBootApplication

@EnableJpaAuditing

public class EmployeeManagementSystemApplication {

public static void main(String[] args) {

SpringApplication.run(EmployeeManagementSystemApplication.class, args);

}

}

Auditable.java

package com.example.employeemanagementsystem.entity;

import lombok.Getter;

import lombok.Setter;

import org.springframework.data.annotation.CreatedDate;

import org.springframework.data.annotation.LastModifiedDate;

import org.springframework.data.jpa.domain.support.AuditingEntityListener;

import javax.persistence.EntityListeners;

import javax.persistence.MappedSuperclass;

import javax.persistence.Temporal;

import javax.persistence.TemporalType;

import java.util.Date;

@MappedSuperclass

@EntityListeners(AuditingEntityListener.class)

@Getter

@Setter

public abstract class Auditable {

@CreatedDate

@Temporal(TemporalType.TIMESTAMP)

private Date createdDate;

@LastModifiedDate

@Temporal(TemporalType.TIMESTAMP)

private Date lastModifiedDate;

}

Employee.java

package com.example.employeemanagementsystem.entity;

import lombok.Data;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.ManyToOne;

@Entity

@Data

public class Employee extends Auditable {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String name;

private String email;

@ManyToOne

private Department department;

}

Department.java

package com.example.employeemanagementsystem.entity;

import lombok.Data;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.OneToMany;

import java.util.List;

@Entity

@Data

public class Department extends Auditable {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String name;

@OneToMany(mappedBy = "department")

private List<Employee> employees;

}

Auditable

import org.springframework.data.annotation.CreatedBy;

import org.springframework.data.annotation.LastModifiedBy;

@MappedSuperclass

@EntityListeners(AuditingEntityListener.class)

@Getter

@Setter

public abstract class Auditable {

@CreatedDate

@Temporal(TemporalType.TIMESTAMP)

private Date createdDate;

@LastModifiedDate

@Temporal(TemporalType.TIMESTAMP)

private Date lastModifiedDate;

@CreatedBy

private String createdBy;

@LastModifiedBy

private String lastModifiedBy;

}

AuditorAwareImpl.java

package com.example.employeemanagementsystem.config;

import org.springframework.context.annotation.Configuration;

import org.springframework.data.domain.AuditorAware;

import java.util.Optional;

@Configuration

public class AuditorAwareImpl implements AuditorAware<String> {

@Override

public Optional<String> getCurrentAuditor() {

// Here you would return the currently logged-in user.

// For simplicity, let's return a hardcoded user. Replace this with actual user retrieval logic.

return Optional.of("admin");

}

}

EmployeeManagementSystemApplication.java

import org.springframework.context.annotation.Bean;

import org.springframework.data.domain.AuditorAware;

@SpringBootApplication

@EnableJpaAuditing(auditorAwareRef = "auditorAware")

public class EmployeeManagementSystemApplication {

public static void main(String[] args) {

SpringApplication.run(EmployeeManagementSystemApplication.class, args);

}

@Bean

public AuditorAware<String> auditorAware() {

return new AuditorAwareImpl();

}

}