// File: pom.xml (dependencies)

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

</dependencies>

// File: EmployeeManagementApplication.java

@SpringBootApplication

@EnableJpaAuditing(auditorAwareRef = "auditorProvider")

public class EmployeeManagementApplication {

public static void main(String[] args) {

SpringApplication.run(EmployeeManagementApplication.class, args);

}

}

// File: AuditorAwareImpl.java

@Component("auditorProvider")

public class AuditorAwareImpl implements AuditorAware<String> {

@Override

public Optional<String> getCurrentAuditor() {

return Optional.of("admin\_user");

}

}

// File: Auditable.java

@MappedSuperclass

@EntityListeners(AuditingEntityListener.class)

public abstract class Auditable {

@CreatedBy

@Column(updatable = false)

private String createdBy;

@CreatedDate

@Column(updatable = false)

private LocalDateTime createdDate;

@LastModifiedBy

private String lastModifiedBy;

@LastModifiedDate

private LocalDateTime lastModifiedDate;

// Getters and Setters

}

// File: Department.java

@Entity

public class Department extends Auditable {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String name;

// Getters and Setters

}

// File: Employee.java

@Entity

public class Employee extends Auditable {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String name;

private String role;

@ManyToOne

private Department department;

// Getters and Setters

}

// File: DepartmentRepository.java

public interface DepartmentRepository extends JpaRepository<Department, Long> {}

// File: EmployeeRepository.java

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

// File: EmployeeController.java

@RestController

@RequestMapping("/api")

public class EmployeeController {

@Autowired

private EmployeeRepository employeeRepository;

@Autowired

private DepartmentRepository departmentRepository;

@PostMapping("/departments")

public Department createDepartment(@RequestBody Department dept) {

return departmentRepository.save(dept);

}

@PostMapping("/employees")

public Employee createEmployee(@RequestBody Employee emp) {

return employeeRepository.save(emp);

}

@GetMapping("/employees")

public List<Employee> getEmployees() {

return employeeRepository.findAll();

}

}

// File: application.properties

spring.datasource.url=jdbc:h2:mem:testdb

spring.datasource.driverClassName=org.h2.Driver

spring.datasource.username=sa

spring.datasource.password=

spring.jpa.database-platform=org.hibernate.dialect.H2Dialect

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true