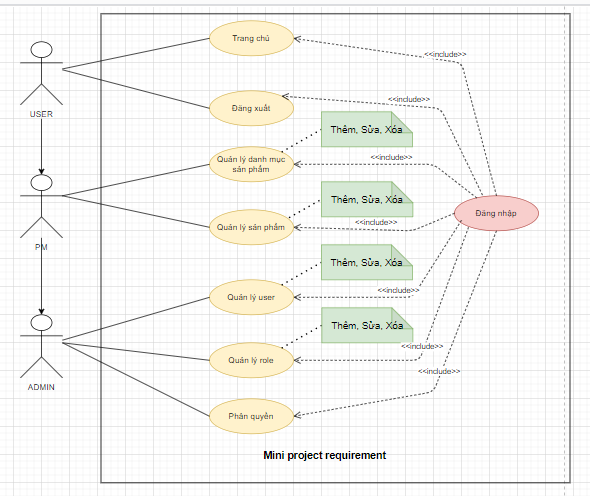
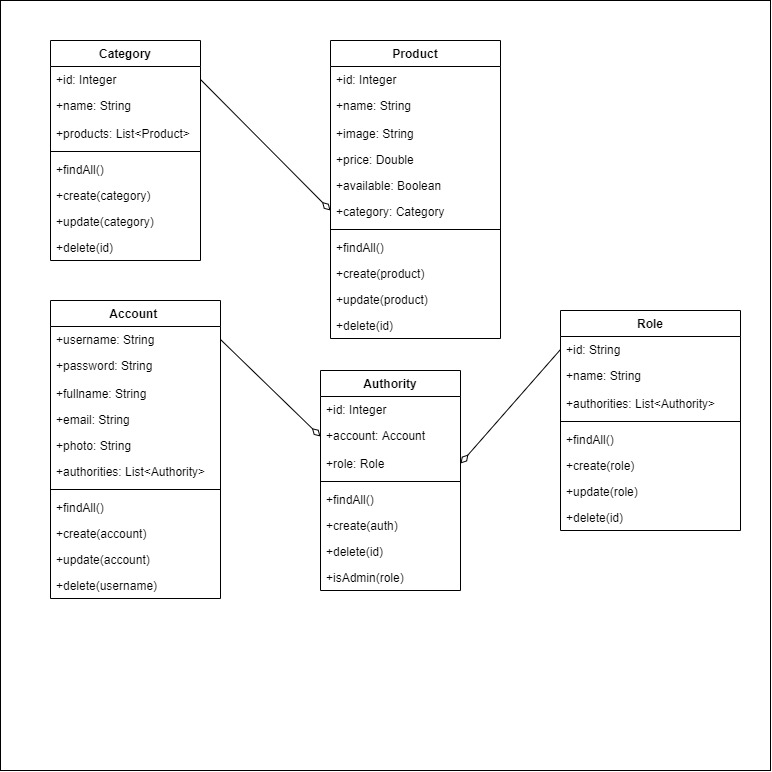
**Mini project requirement**

**1 PHÂN TÍCH**

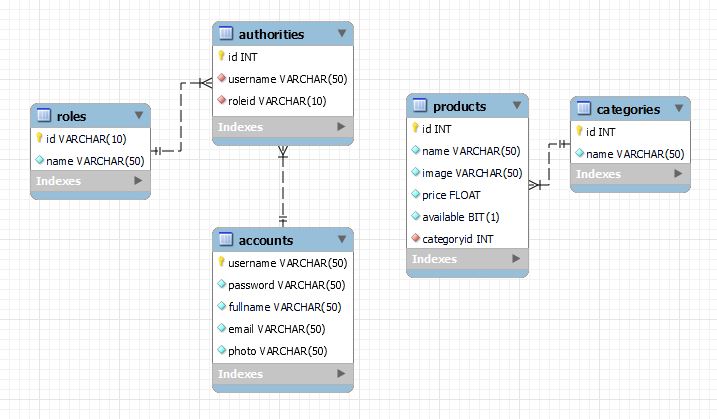
* 1. **Yêu cầu hệ thống**
* **Yêu cầu chức năng nghiệp vụ**
* Quản lý user
* Quản lý role
* Quản lý danh mục sản phẩm
* Quản lý sản phẩm
* Phân quyền
* Đăng nhập
* Đăng xuất
* **Yêu cầu bảo mật**
* Đăng nhập mới được vào hệ thống
* Đăng nhập với vai trò user chỉ được vào trang chủ
* Đăng nhập với vai trò pm được quản lý danh mục sản phẩm và sản phẩm
* Đăng nhập vai trò admin được sử dụng tất cả chức năng
  1. **User case**



* 1. **Class diagram**

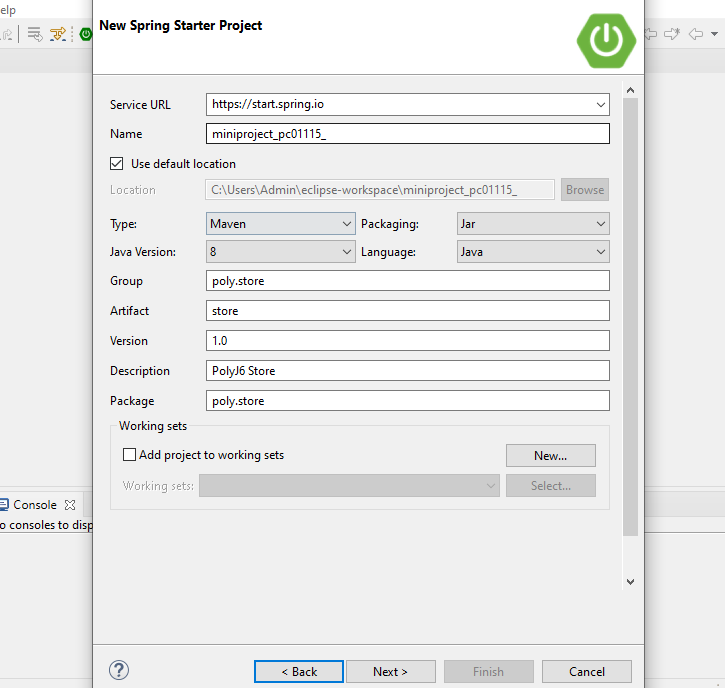
****

* 1. **Database diagram**



1. **HƯỚNG DẪN**
   1. **Tạo dự án Spring Boot**

Chọn file -> new -> Spring Boot -> String Starter Project - > next -> finish



* 1. **Thêm dependency pom.xml**

<dependency>

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

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

</dependency>

<dependency>

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

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

</dependency>

<dependency>

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

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

</dependency>

<dependency>

<groupId>org.thymeleaf.extras</groupId>

<artifactId>thymeleaf-extras-springsecurity5</artifactId>

</dependency>

<dependency>

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

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

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

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

<scope>test</scope>

<exclusions>

<exclusion>

<groupId>org.junit.vintage</groupId>

<artifactId>junit-vintage-engine</artifactId>

</exclusion>

</exclusions>

</dependency>

<dependency>

<groupId>org.springframework.security</groupId>

<artifactId>spring-security-test</artifactId>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

<optional>true</optional>

</dependency>

<dependency>

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

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

</dependency>

<dependency>

<groupId>io.springfox</groupId>

<artifactId>springfox-swagger2</artifactId>

<version>2.9.2</version>

</dependency>

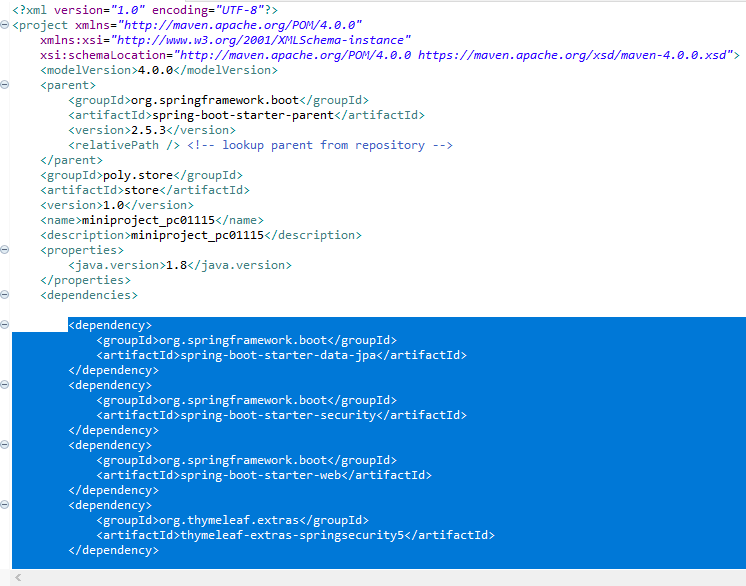
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<groupId>io.springfox</groupId>

<artifactId>springfox-swagger-ui</artifactId>

<version>2.9.2</version>

</dependency>





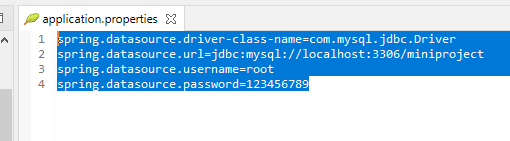
* 1. **Khai báo applocation.property**

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

spring.datasource.url=jdbc:mysql://localhost:3306/miniproject

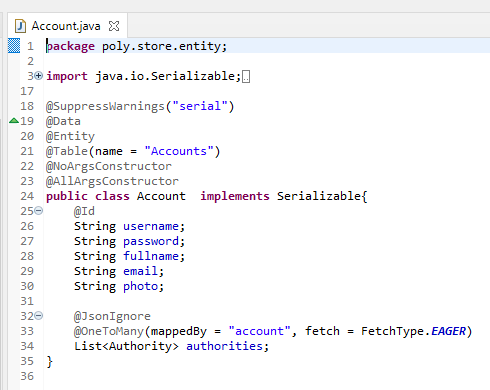
spring.datasource.username=root

spring.datasource.password=123456789

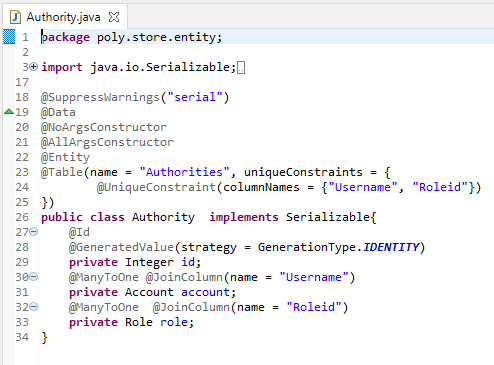


* 1. **Tạo các Entity**

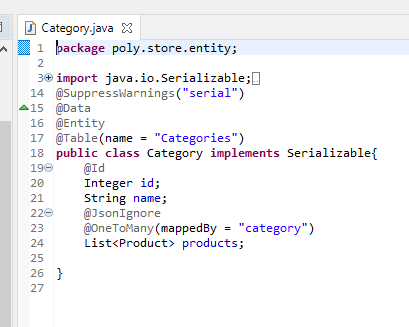
**Entity Account**



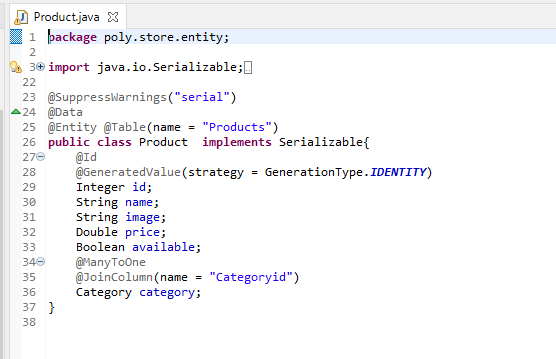
**Entity Authority**



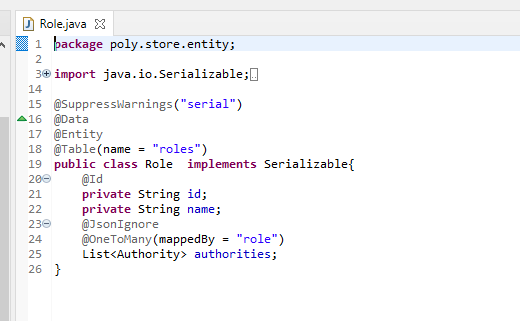
**Entity Category**



**Entity Product**

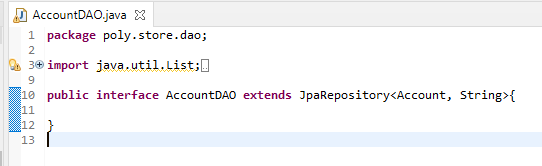


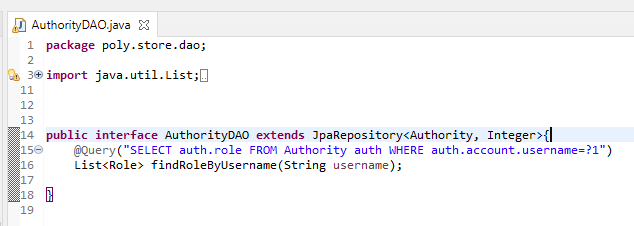
**Entity Role**



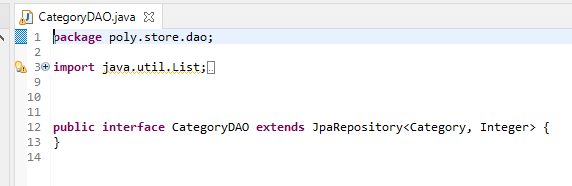
* 1. **Tạo các lớp DAO**

**Acount DAO**

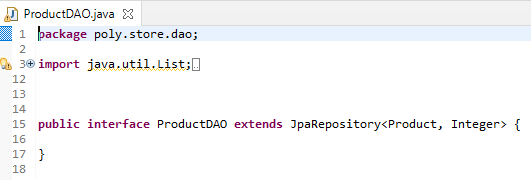


**Authority DAO** 

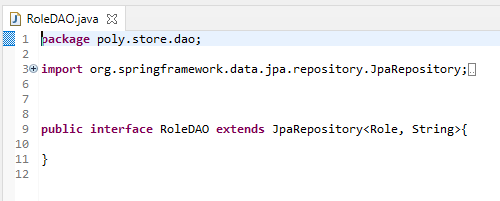
**Category DAO**



**Product DAO**

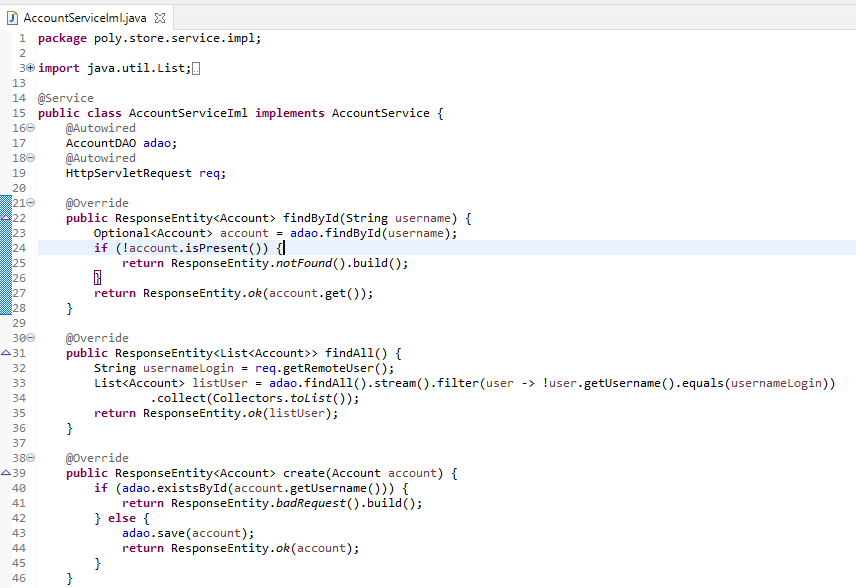
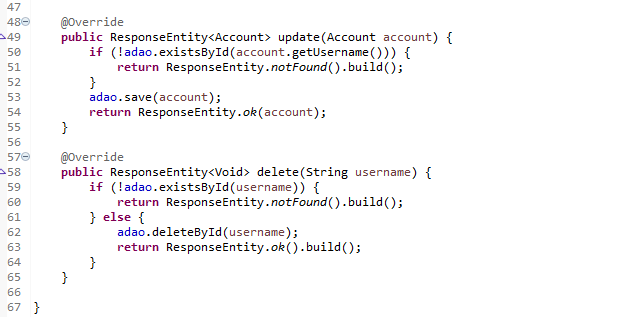


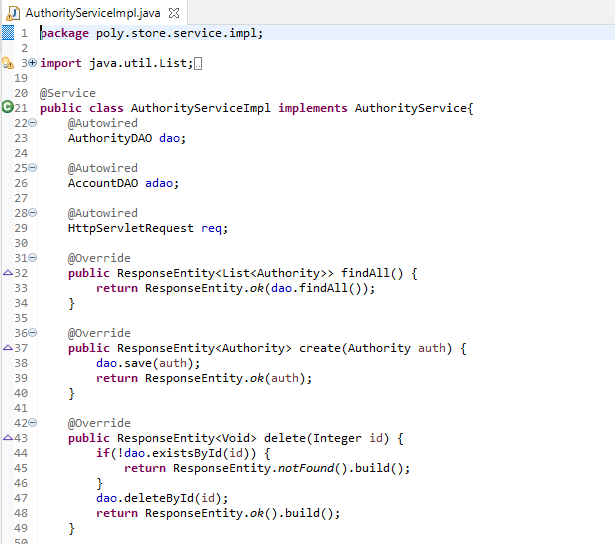
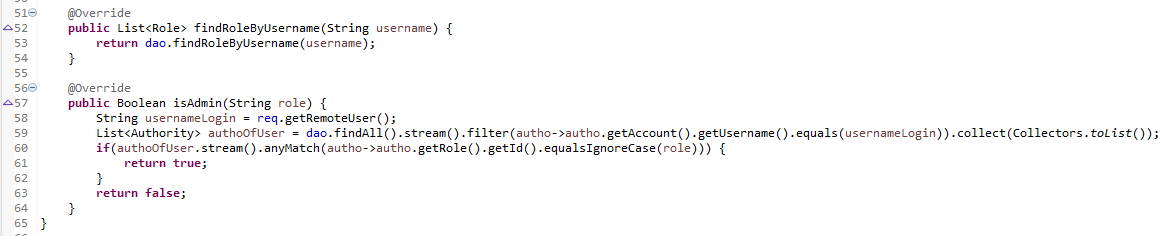
**Role DAO**

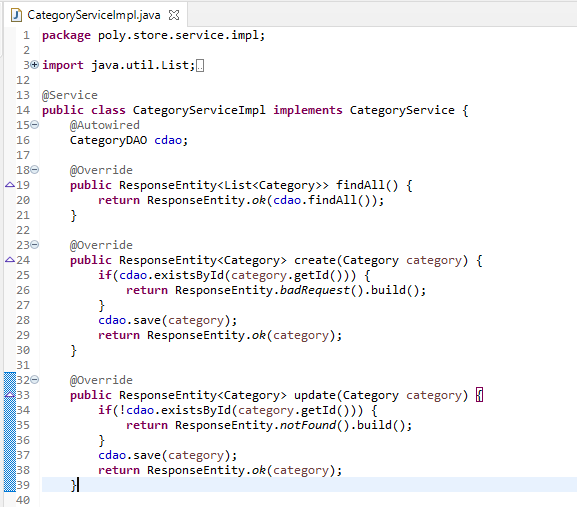
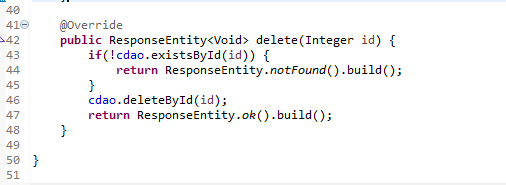


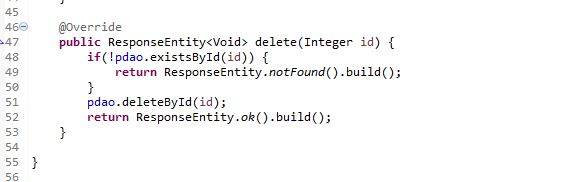
* 1. **Tạo các lớp ServiceIml**

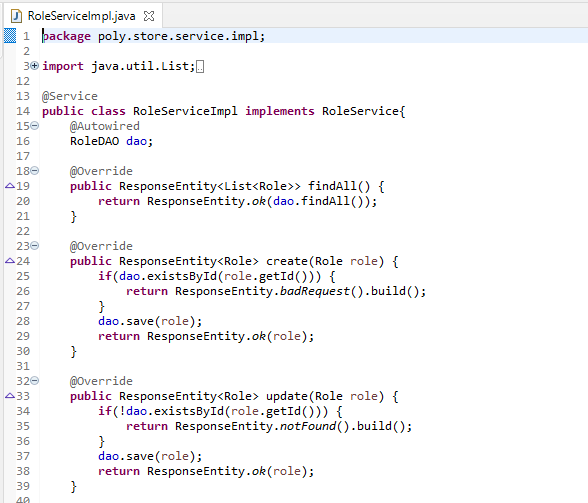
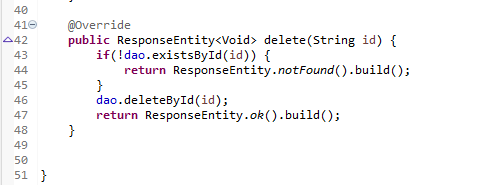
**AcountServiceIml**

**AthorityServiceIml**  

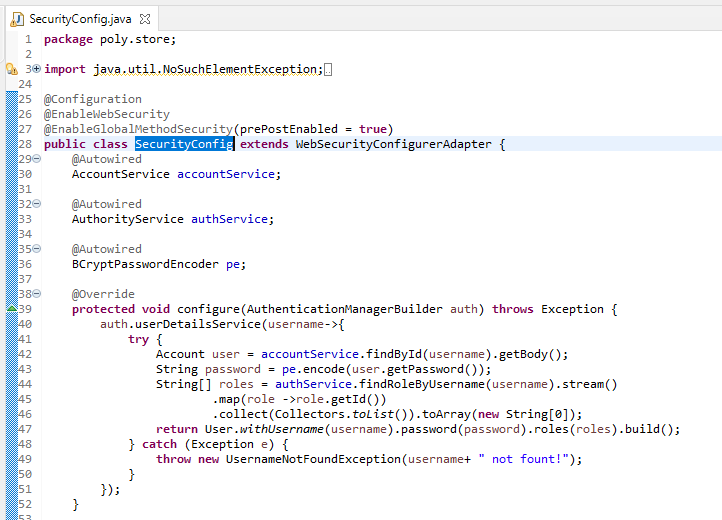
**CategoryServiceIml**  

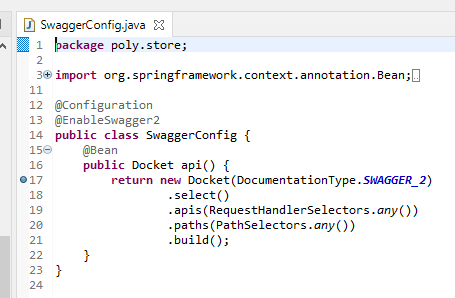
**ProductServiceIml**  

**RoleServiceIml**  

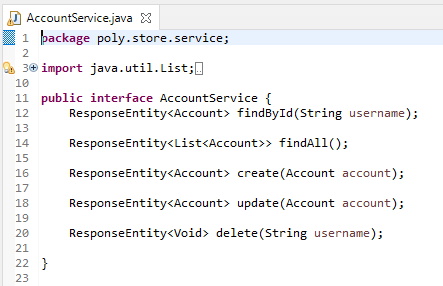
**UploadServiceIml** 

* 1. **Cấu hình**

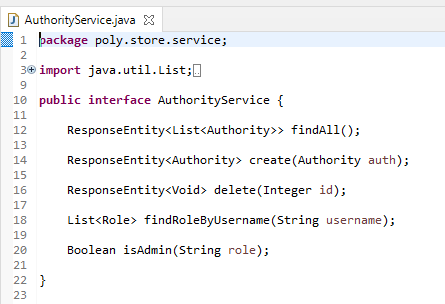
**SecurityConfig**  

**SwaggerConfig** 

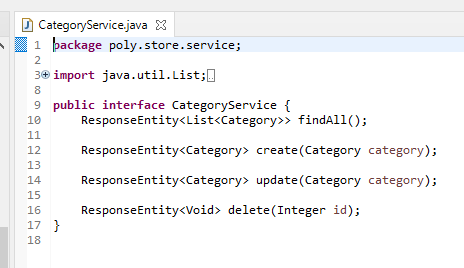
* 1. **Tạo các Service**
  2. **AcountService**



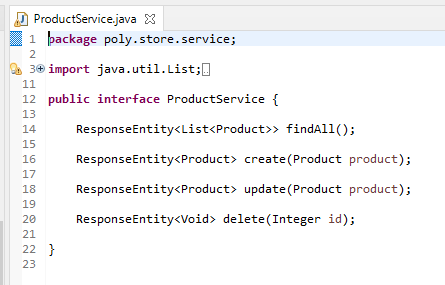
**AuthorityService**



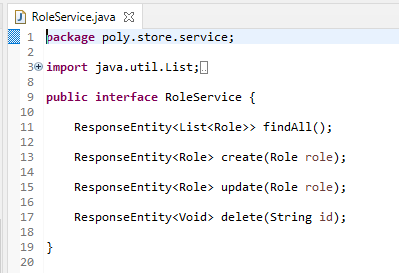
**CategoryService**



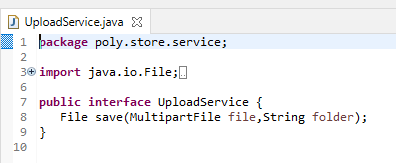
**ProductService**



**RoleService**



**UploadService**

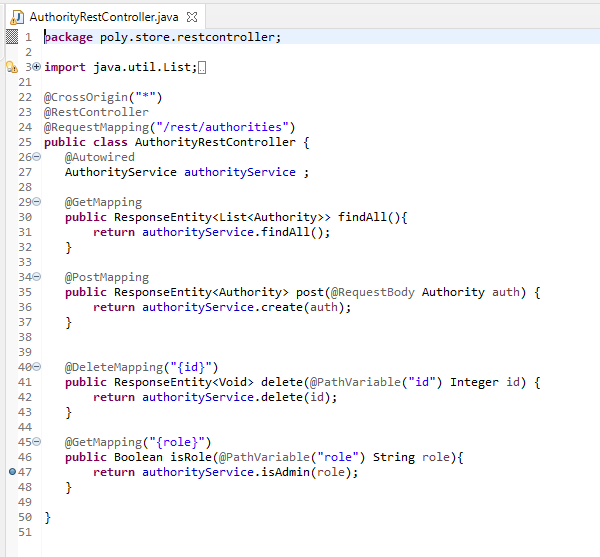


* 1. **Tạo các RestController**

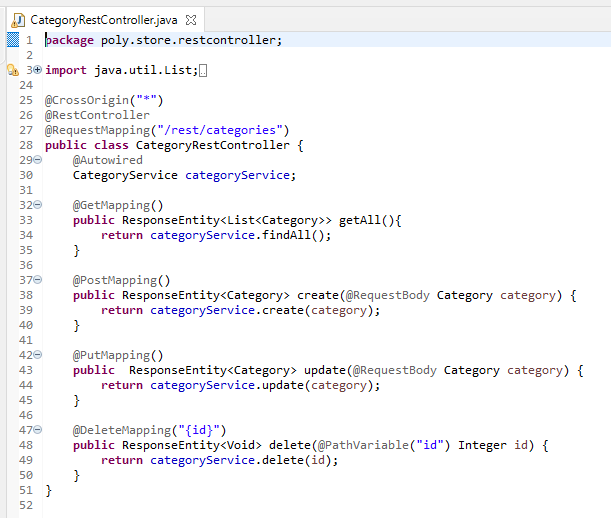
**AcountRestController**



**AuthorityRestController**



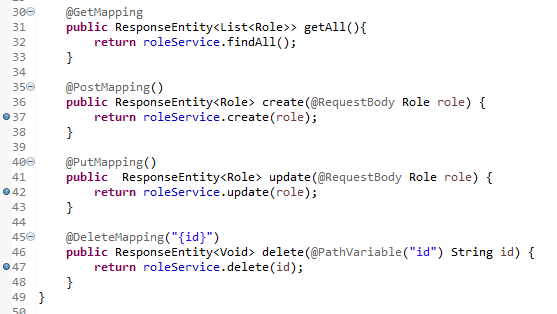
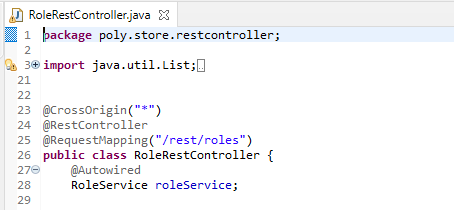
**CategoryRestController**

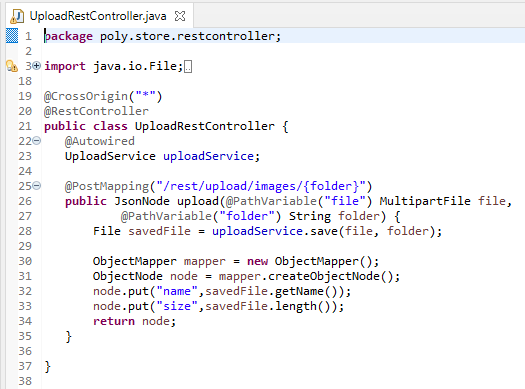


**ProductRestController**



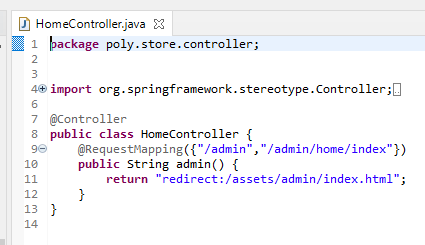
**RoleRestController**

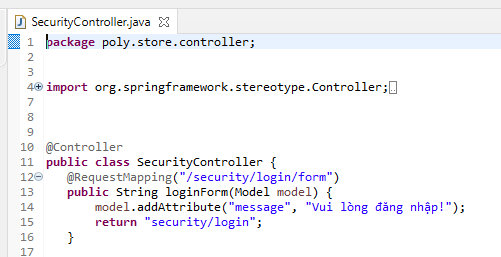


**UploadRestController**

* 1. **Tạo các Controller**

**HomeController**

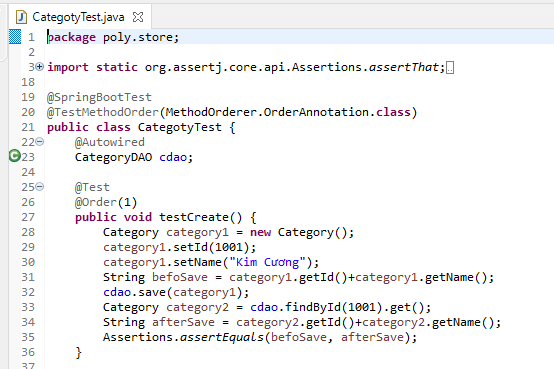


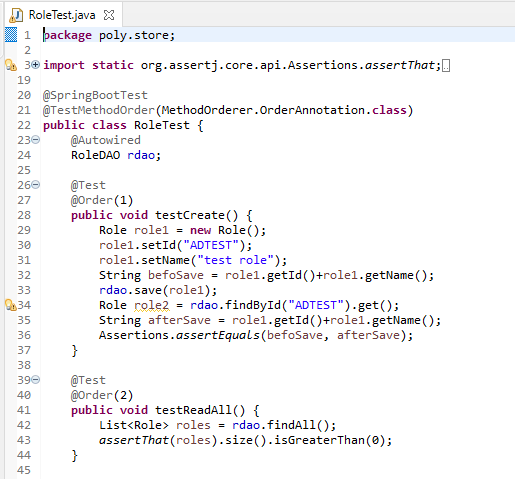
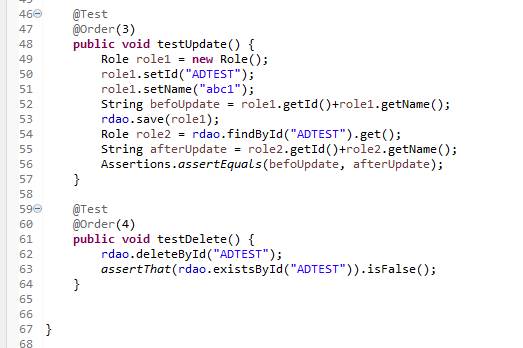
**SecurityController** 



* 1. **Tạo các lớp Test**

**CategoryTest**

**RoleTest**  

**UserTest**  

* 1. **Cấu trúc project**

