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 - API Doc
 - 。 E-Book Shop 功能文档
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 - 进阶功能
 - 集成功能
 - Unit Test
 - Repository Test
 - 新建并保存书籍
 - 根据id删除书籍
 - 根据id修改书籍
 - 根据 book_name 模糊查找所有相关书籍
 - Controller Test
 - 用户注册
 - 其他功能可查看功能文档或运行项目,不好展示...

E-Book Shop

E-BookShop Project for Spring Boot with Spring Security, Alibaba Druid, Thymeleaf, MySQL, Springdoc

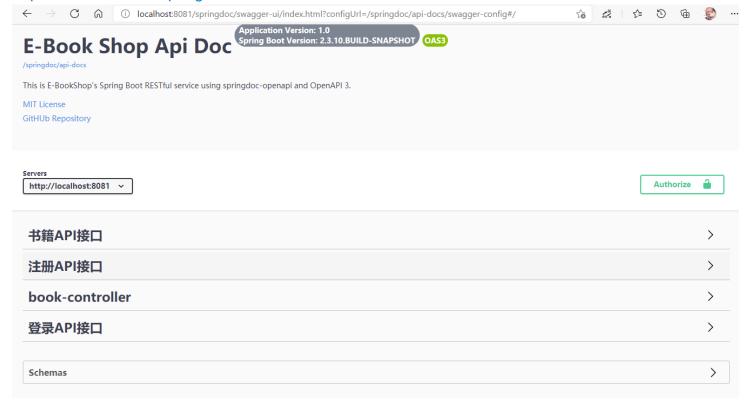
Project Structure

```
├.gitignore
├-.idea
-.mvn
⊢ebookshop.iml
-LICENSE -----
                  ----- // MIT License
-mvnw
-mvnw.cmd
⊢pom.xml
├README.md ------ // README文档
-src
 -main
 L_com
     └aruoxi
       Lebookshop
        ⊢common
         └CommonResult.java
        ├config -----// 所有配置类
         ├─ApplicationInitializer.java ----- // 程序初始化
        │ ├ExceptionHandle.java ------ // 全局异常拦截器
        | ├─MyProps.java ------------- // 读取特定配置用于初始化
         ├─SecurityConfiguration.java ----- // Spring Security配置类
         └─springdoc -----// springdoc配置类
        ├controller ------------ // 路由控制器
         ⊢BookController.java
         ├dto ----- // 数据传输对象类集合
         ⊢LoginController.java
         ⊢MainController.java
         ⊢restController
         └─UserRegistrationController.java
         -domain ------ // 实体类
         ⊢Book.java
         ├QBook.java ----- // Book属性类
         ⊢Role.java
         └─User.java
         —EbookshopApplication.java ------ // 主程序启动类
        ├exception -------------// 自定义异常类
         -repository ----- // repository
          ⊢BookRepository.java
         ⊢RoleRepository.java
          └─UserRepository.java
        └service ----- // 服务类
          ⊢BookService.java
          ├impl -----// 服务的具体实现类
           ├─BookServiceImpl.java
           ⊢RoleServiceImpl.java
           └─UserServiceImpl.java
          ⊢RoleService.java
          └─UserService.java
   -resources
    ├application.yml ------// 配置文件
```

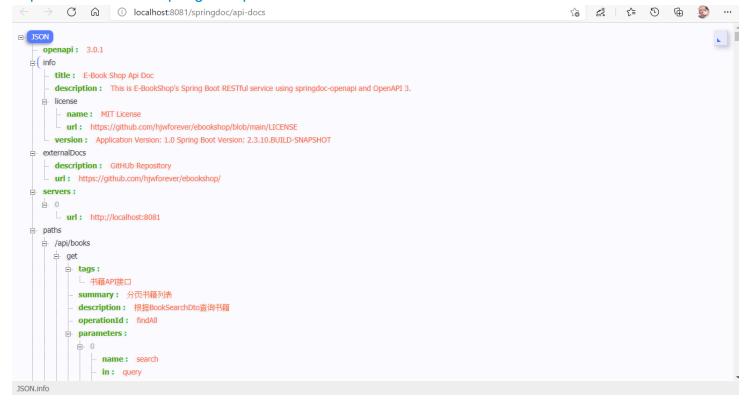
```
├banner.txt ----- // 自定义banner
    -META-INF
    ├schema.sql ---------------// 初始化数据结构sql
     ⊢assets
     -css
     ⊢images
     ⊢js
    Ltemplates ----- // 模板
     —content.html
      ⊢home.html
      ├login.html
     └registration.html
  -test -----
  ∟java
    L_com
     ∟aruoxi
       Lebookshop
        ├─ApplicationTests.java
        └─EbookshopApplicationTests.java
└─target
```

API Doc

http://localhost:8081/springdoc/index.html



http://localhost:8081/springdoc/api-docs



E-Book Shop 功能文档

详情可看附件设计文档或项目在线接口文档

基本功能

- 登录
- 注册
- 看书
- 上传
- 音乐播放器
- 书籍的增删改查(API)

进阶功能

- 1. 分页+ajax局部刷新
- 书籍列表分页 及 局部刷新
- 阅读书籍分页 及 局部刷新
- 2. 拦截器及过滤器 (intercepters/filters)

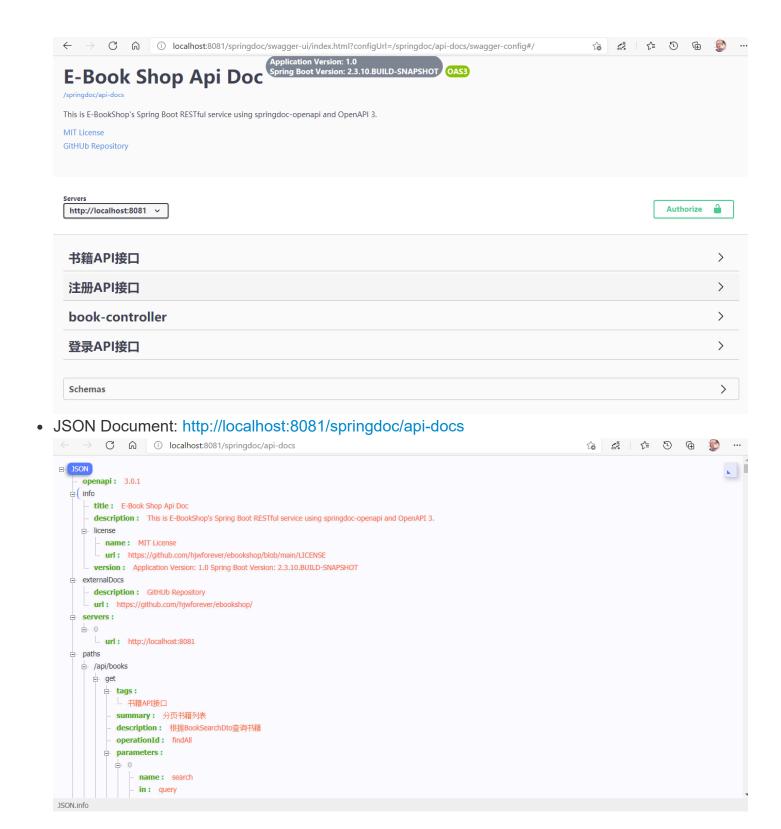
- 路由拦截器
- 全局异常拦截器
- 登录跳转至首页
- 3. 集成Spring Security (Authentication and authorization)
- 登录注册
- 权限分级
- 密码加密
- 路由拦截
- 4. 权限分级
- 游客(未登录用户)只能浏览书籍列表,不可阅读及下载
- 登录用户(User) 可以阅读及下载书籍, 但不可上传书籍
- 管理员(Admin) 拥有以上所有权限, 并可上传及修改书籍 (增删改查)

集成功能

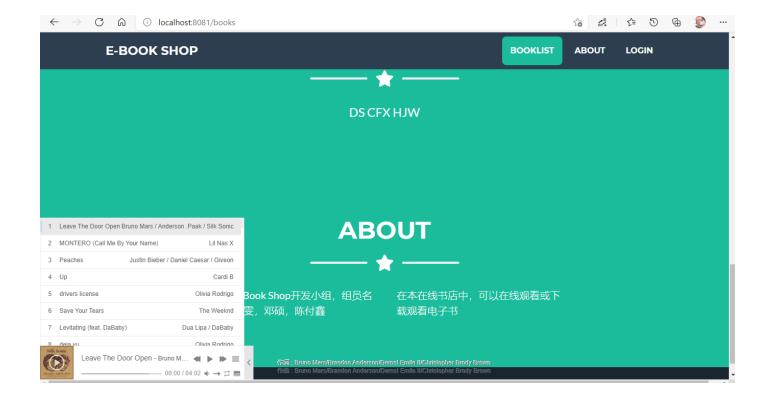
- 1. SpringSecurity
- 2. Druid数据库监控(访问路径 http:/localhost:8081/druid)



- 3. Springdoc在线接口文档
- Online Document: http://localhost:8081/springdoc/index.html



4. 音乐播放器



Unit Test

Repository Test

新建并保存书籍

```
@Test
        void saveBook() {
           Book book = new Book();
           book.setBookName("测试书籍1");
           book.setAuthor("张三");
           book.setBookIntro("这是一本测试书籍");
           Book savedBook = bookRepository.save(book); // 保存书籍
           LOG.info("savedBook = " + savedBook.toString()); // 打印结果
ook

✓ Tests passed: 1 of 1 test – 383 ms

  ı: spring.jpa.open-in-view is enabled by default. Therefore, database queries
    : Initializing ExecutorService 'applicationTaskExecutor'
    : Creating filter chain: any request, [org.springframework.security.web.conte
    : Started EbookshopApplicationTests in 18.807 seconds (JVM running for 20.533
  iook_sell_status, book_uri, create_time, original_price, selling_price, starts,
    : savedBook = com.aruoxi.ebookshop.domain.Book@66859ea9
```

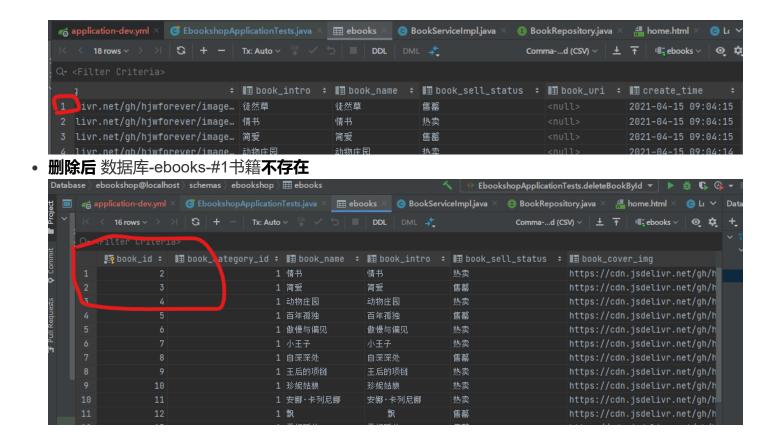
根据id删除书籍

• 根据id删除书籍

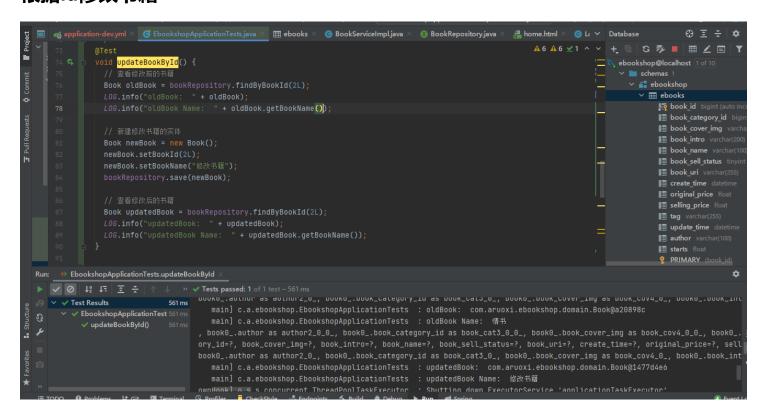
```
EbookshopApplicationTests.deleteBookById ▼
                                                                                                      # home.html × 🙆 Lc 🗸 Database
                                                                                                                                          ⊕ ₹ ₹
                                                   •
                                                                                                                                ∨ ≣ ebooks
              void restTemplateForRegistration() {
                                                                                                                                     🃭 book_id bigint (a
               RestTemplate client = new RestTemplate();
HttpHeaders headers = new HttpHeaders();
                                                                                                                                     ■ book_category_id |
                                                                                                                                     I book_intro
                                                                                                                                     ■ book name
                                                                                                                                     ■■ book sell status
                                                                                                                                     ■ book uri var
                JSONObject param = new JSONObject();
                                                                                                                                     I

■ create time
               param.put("username", "123");
param.put("email", "123@qq.com")
                                                                                                                                     ■ original price
                                                                                                                                     selling price
                                                                                                                                     I≣ tag
                                                                                                                                     I update_time
                HttpEntity formEntity = new HttpEntity(param, headers);
       ◆ EbookshopApplicationTests.deleteBookById
                                                                                                                                                    立 -
     Y Y Test Results
                             880 ms
          ✓ EbookshopApplicationTest 880 m
                                                                                    main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorSe
                                                                                   main] c.a.ebookshop.EbookshopApplicationTests : Started EbookshopApplic
                                    2021-04-18 13:31:25.051 INFO 10324 --- [
```

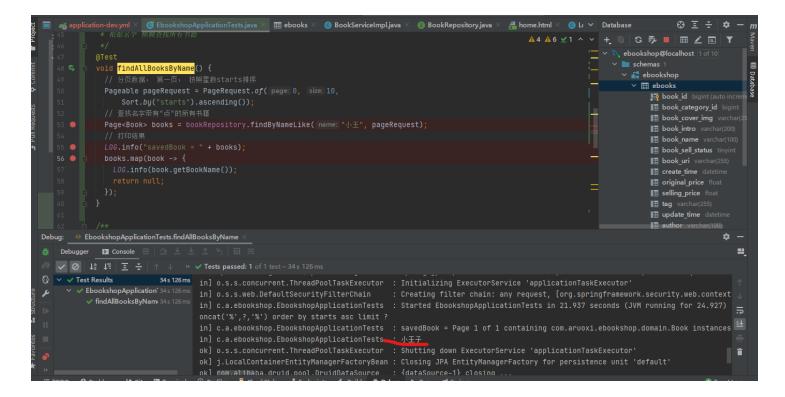
• 删除前 数据库-ebooks-#1书籍**存在**



根据id修改书籍



根据 book_name 模糊查找所有相关书籍



Controller Test

用户注册

register Test

```
⊕ 至 🗧 🌣 -
                                                                                                                                                v N ebookshop@localhost 1 of 10
             RestTemplate client = new RestTemplate();
HttpHeaders headers = new HttpHeaders();
                                                                                                                                                        ebookshop
                                                                                                                                                           > III ebooks
                                                                                                                                                           > III roles
                                                                                                                                                           > III users_roles
                                                                                                                                                     > collations 2
             param.put("username", "registerTest");
param.put("email", "registerTest@qq.com");
                                                                                                                                                     > users 5
              HttpEntity formEntity = new HttpEntity(param, headers);
                                                                                                                                                                                    * –
THILLIBELIZING EXECUTOR SCINICE APPLICATION (ASKEYCONTO).

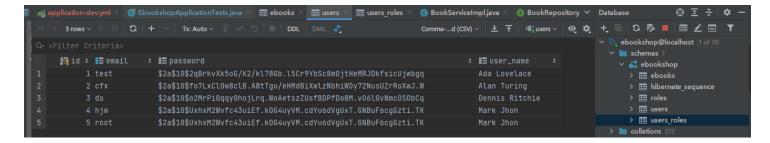
✓ ✓ Test Results

✓ EbookshopApplicationTest 696 ms

✓ restTemplateForRegistra 696

                                         : result: {"code":200,"msg":"success","data":{"id":6,"username":"registerTest","email":"reqisterTest@qq.com","password":"🕏 👼
                                         : Shutting down ExecutorService 'applicationTaskExecutor'
```

• 注册前的数据库用户列表



• 注册后的数据库用户列表

