Case Study myRetail RESTful service

Technologies/Tools Used for Case study

1. Spring Boot 1.4.2.RELEASE
2. Spring Security (Basic authentication)
3. Eh Cache
4. Swagger 2.6.1 using Springfox API
5. Cassandra 2.1.8
6. Spring Data
7. slf4j logger
8. jUnit
9. Mockito
10. Maven 3
11. JDK 1.8
12. STS 3.9.0

How to run application:

The application can be started by running the below maven command

mvn clean install spring-boot:run

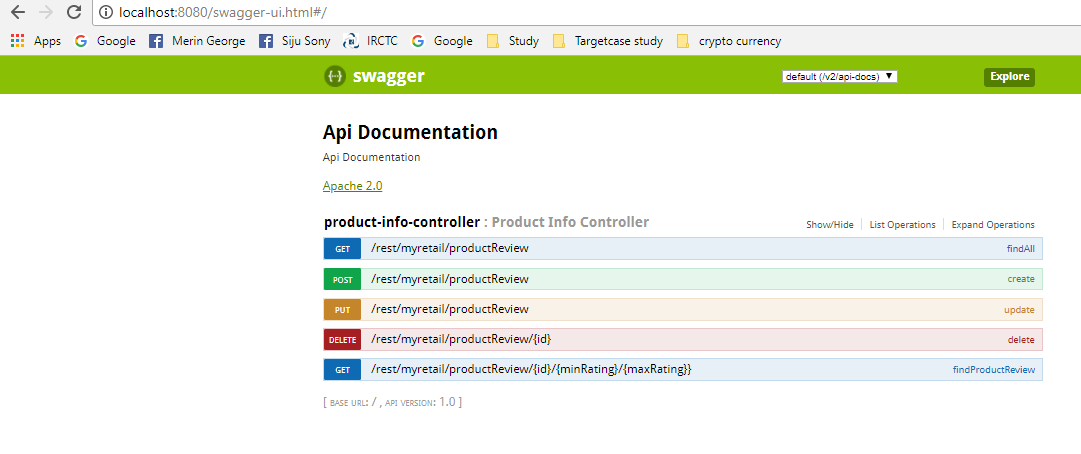
API Information Document

API Information is available under swagger UI below

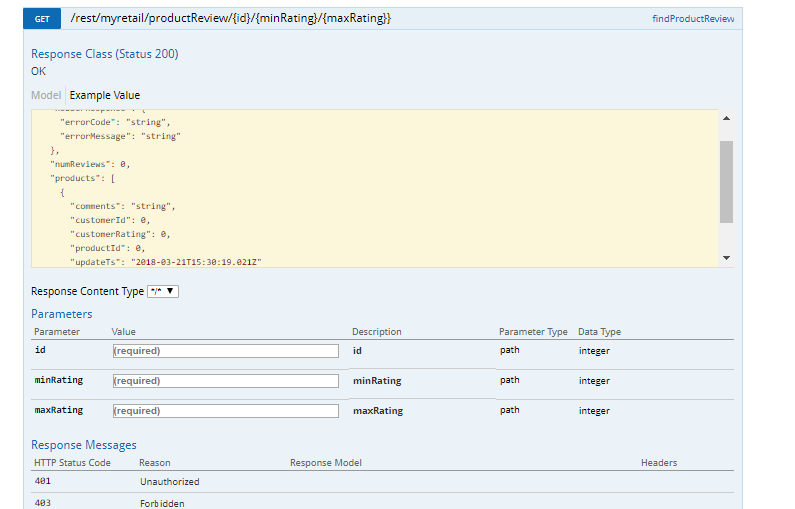
<http://localhost:8080/swagger-ui.html#/>

username : myretail

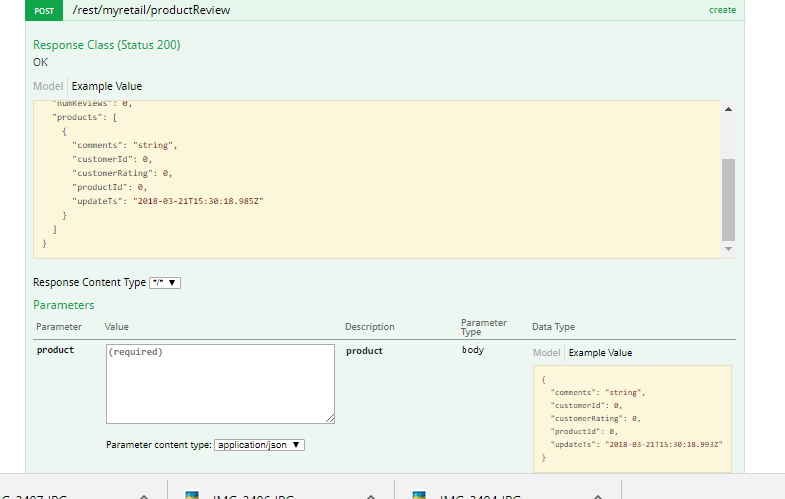
password : myretail



Get Request Info : will get number or reviews and all reviews for the given range



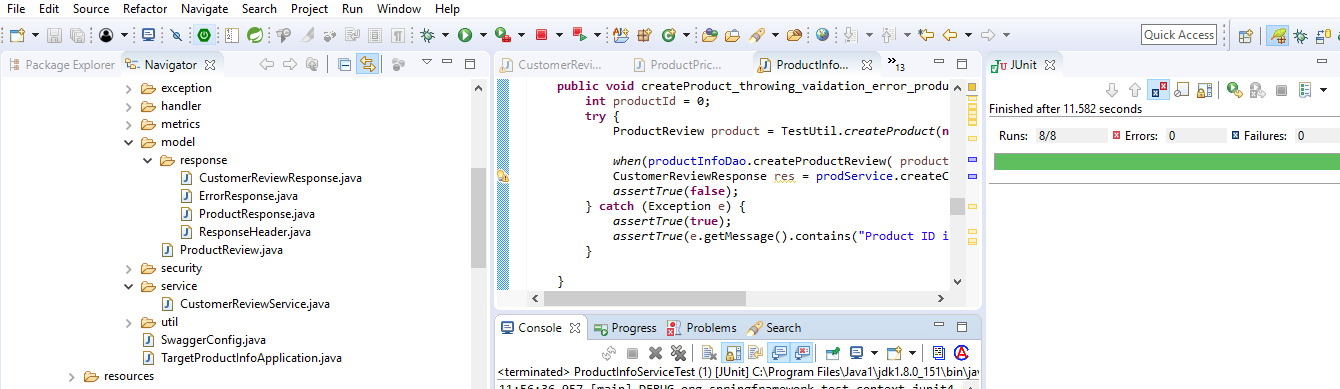
POST Request Info



Testing of Application

Testing was done unit junit with mokito

ProductInfoServiceTest.java



Cassandra table Format

Table is designed in such a way that the latest record for a particular product is always available as first record

CREATE column family customer\_review(

product\_id bigint,

customer\_id bigint,

update\_ts TIMESTAMP,

customer\_rating bigint,

comments TEXT,

PRIMARY KEY ((product\_id),customer\_id , update\_ts)

) WITH CLUSTERING ORDER BY (update\_ts DESC);

create index customer\_review\_rating on customer\_review (customer\_rating);

Indexing was done to enable query based on rating