An- Najah National University



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Faculty of Engineering

Department Name:

Computer Engineering

Dos Project_Part1

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WE HAVE 3 SERVER:

- 1.Front-end server → my first linux in virtual box
- 2.catalog server → my windows
- 3.order server → my second linux in virtual box

Then we want start with Front-end→

In this server we added 3 classes the first class book ,it contain all element which for any book , and second class front-end service :

```
public class front end service {
    private final RestTemplate restTemplate = new RestTemplate();
    public Book Search(String topic) {
        return restTemplate.getForObject("http://localhost:8080/BookTopic/"+topic, Book.class);
    }

public Book info(String item) {
        return restTemplate.getForObject("http://localhost:8080/BookItem/"+item, Book.class);
    }

public Book purchase(String item) {
        restTemplate.put("Book/purchase/"+item,Book.class);
        return null;
    }
}
```

and third class is front-end controller which contain info, search and purchase.

Then catalog→

My data base in widows

It contain interface book_JPA , book class , book service and catalog service controller

Catalog service controller it include get by name ,add book ,update book info and get by topic.

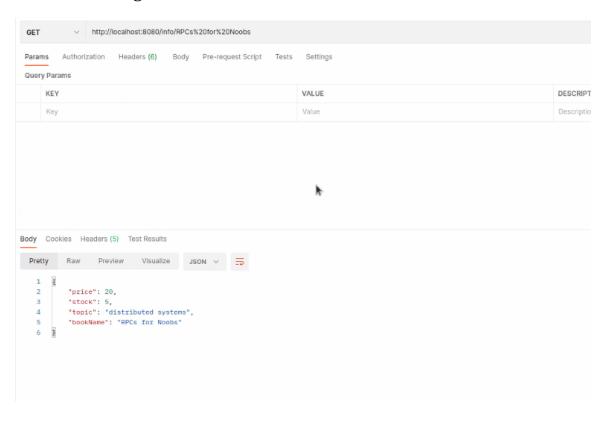
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Then order→

It contain book class, purchase service and purchase controller purchase controller it include purchase item

implementation

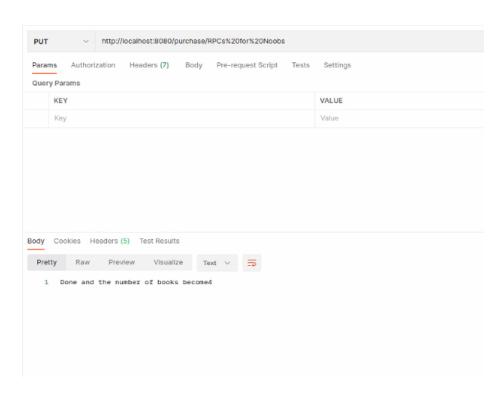
1. we want get information for book which it name RPCs for Noobs



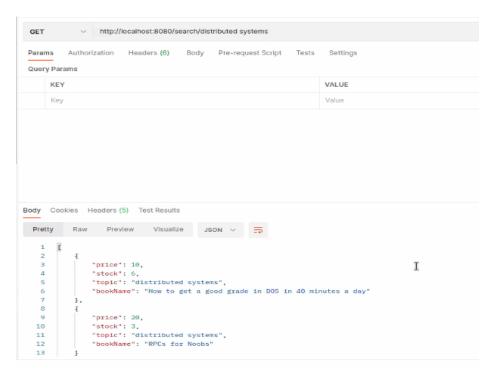
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2. we want purchase a book which it name RPCs for Noobs

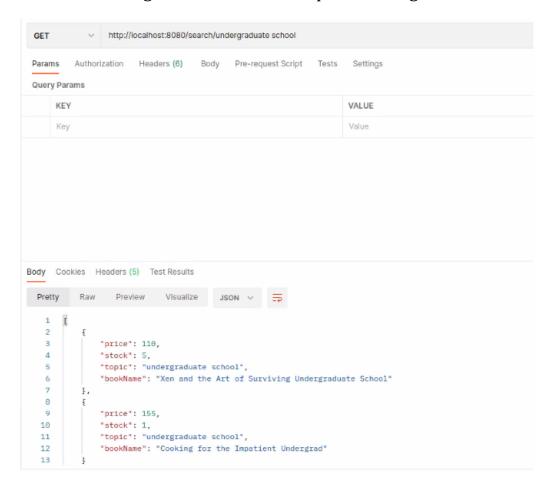


3.now we want get all books which topic is distributed system

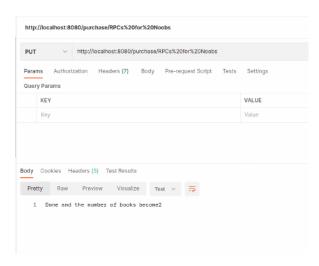


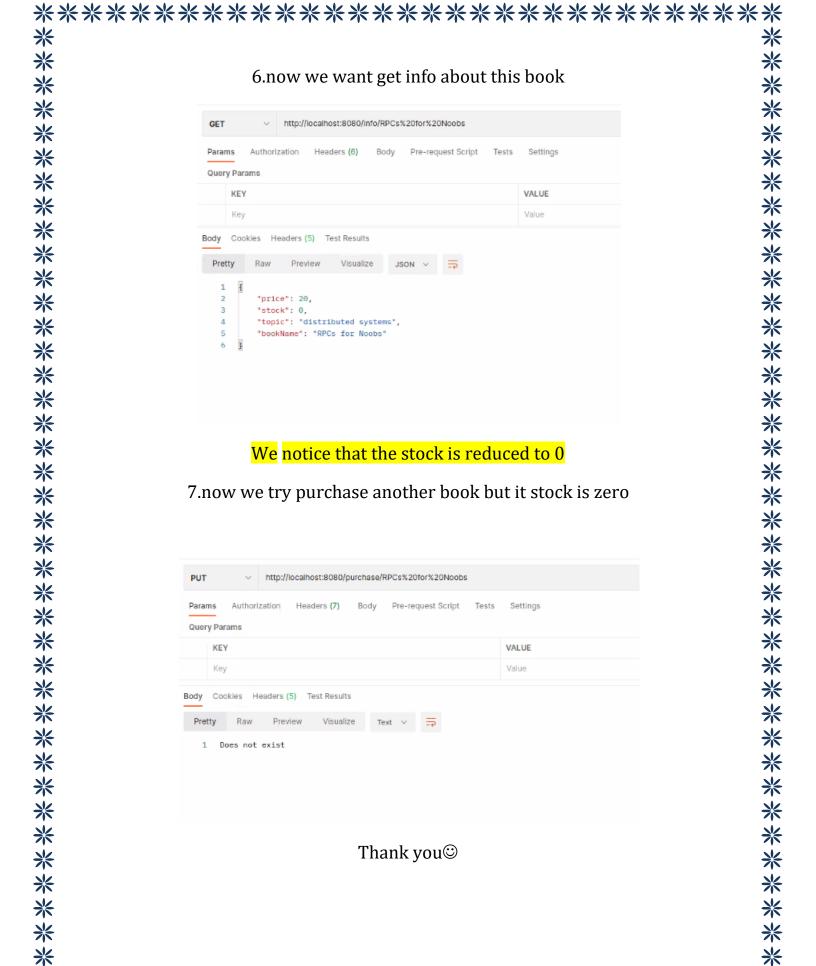
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4.now we want get all books which topic is undergraduate

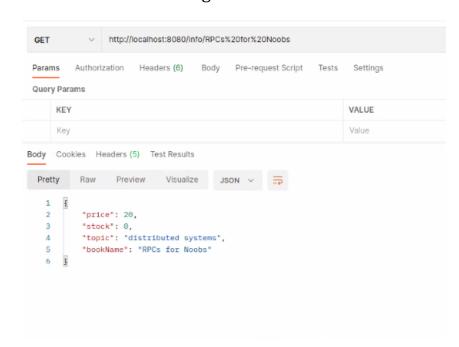


5. We Purchased all the books with their name RPCs for Noobs



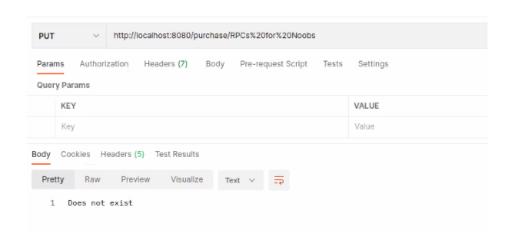


6.now we want get info about this book



We notice that the stock is reduced to 0

7.now we try purchase another book but it stock is zero



Thank you@