

# An-Najah National University Faculty of Engineering Computer Engineering Department DOS Course

**Project part1** 

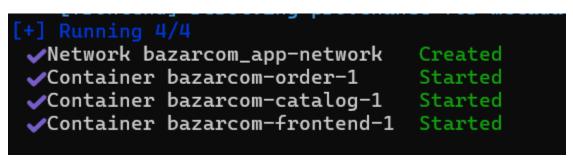
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In this project we design a bazar.com which is the world's smallest book store, we have front end and back end, the front end has only 1 microservices, while the backend has 2(order and catalog), they talk with each other to do specific task, we make a composer to organize communication with them, once we start we build and run a composer in a docker

After build and run the composer, it will run these containers:





3 container communicate with each other using the network that the compose build. We write the composer, docker files and java script, we submit all these, we use node js.

We don't use any database, we just use a file csv for book,

# Operations:

1-localhost:3001/search/topic

2-localhost:3001/info/item number

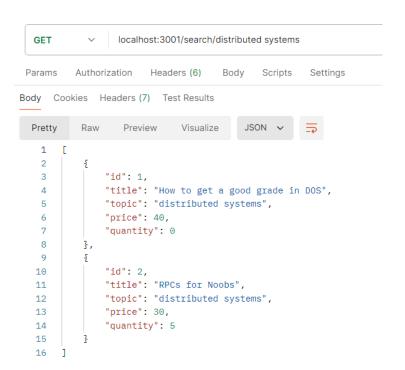
3-localhost:3003/purchase/item number

4- localhost:3003/update / item number

We will make a test in postman and see the results, initially we have this data before any query or update. (this is in a csv file)

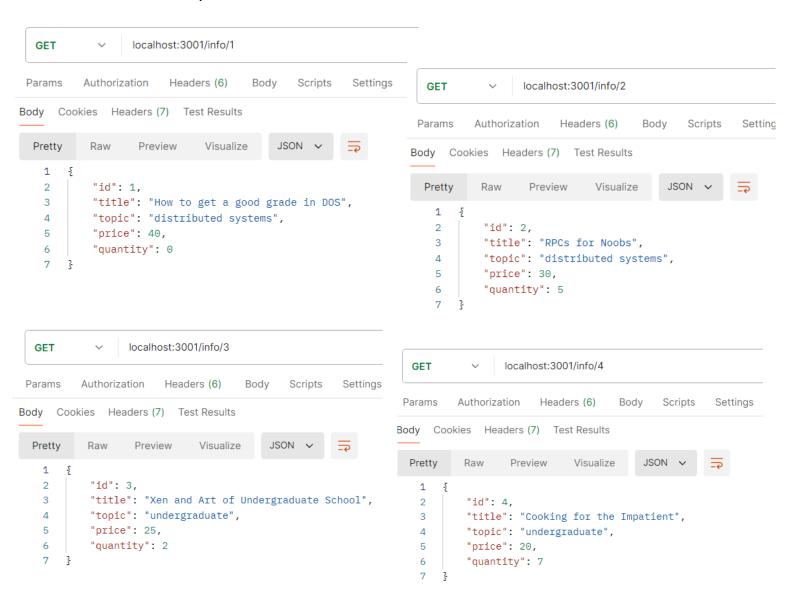
```
id,title,topic,price,quantity
1,How to get a good grade in DOS,distributed systems,40,0
2,RPCs for Noobs,distributed systems,30,5
3,Xen and Art of Undergraduate School,undergraduate,25,2
4,Cooking for the Impatient,undergraduate,20,7
```

We will try to make search depend on the topic, note that we use get method, also we use port 3001 which is front



```
GET
                   localhost:3001/search/undergraduate
                                                          Settings
Params
           Authorization
                          Headers (6)
                                                 Scripts
Body Cookies Headers (7) Test Results
                                Visualize
                                             JSON
  Pretty
                     Preview
    1
        [
    2
            5
    3
                 "id": 3,
    4
                 "title": "Xen and Art of Undergraduate School",
    5
                 "topic": "undergraduate",
    6
                 "price": 25,
                 "quantity": 2
   8
            3,
   10
                 "id": 4,
                 "title": "Cooking for the Impatient",
   11
   12
                 "topic": "undergraduate",
                 "price": 20,
   13
                 "quantity": 7
   14
   15
   16
```

After that we try to make a query just to have information a bout specific book, we search depend on the ID of it, we use GET method, port 3001 for front

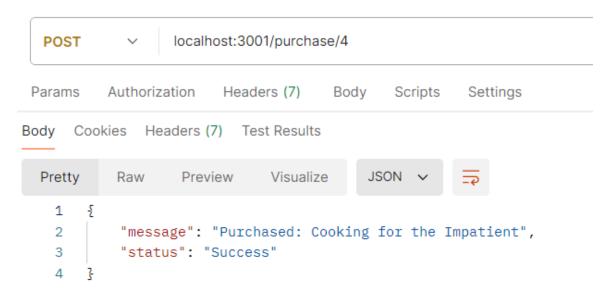


After that we try to make a purchase ,for book with id=4, we have quantity=7, we will purchase and the quantity should decrement by 1

### Before:

```
5 4, Cooking for the Impatient, undergraduate, 20,7
```

# We use post method:



## After:

```
5 4, Cooking for the Impatient, undergraduate, 20, 6
```

The quantity become 6, also when we try to but when quantity =0

