Output for Bazar.com: A Multi-tier Online Book Store

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Curl command:

Search:

curl http://localhost:5000/search/distributed%20systems

Info:

curl http://localhost:5000/info/1

```
C:\Users\Msys\pro\venv>curl http://localhost:5000/info/1
{
    "cost": 55,
    "stock": 10,
    "title": "How to get a good grade in DOS in 40 minutes a day",
    "topic": "distributed systems"
}
```

curl http://localhost:5001/query-by-item/4

```
C:\Users\Msys\pro\venv>curl http://localhost:5001/query-by-item/4
{
    "cost": "65",
    "stock": "13",
    "title": "Cooking for the Impatient Undergrad",
    "topic": "undergraduate school"
}
C:\Users\Msys\pro\veny>
```

curl http://localhost:5001/query-by-subject/distributed systems

Update cost or stock or (cost & stock):

- Update stock:

curl -X PUT -H "Content-Type: application/json" -d "{\"new_stock\": 5 }"
http://localhost:5001/update-stock/1

```
C:\Users\Msys\pro\venv>curl -X PUT -H "Content-Type: application/json" -d "{\"new_stock\": 5 }" http://localhost:5001/up
date-stock/1

{
   "Message": "Stock updated successfully",
   "item": {
        "ID": "1",
        "Title": "How to get a good grade in DOS in 40 minutes a day",
        "cost": "85",
        "stock": 5,
        "topic": "distributed systems"
   }
}
```

data.csv:

```
ID,Title,stock,cost,topic

1,How to get a good grade in DOS in 40 minutes a day,5,85,distributed systems

2,RPCs for Noobs,2,55,distributed systems

3,Xen and the Art of Surviving Undergraduate School,0,70,undergraduate school

4,Cooking for the Impatient Undergrad,13,65,undergraduate school
```

- Update cost:

curl -X PUT -H "Content-Type: application/json" -d "{\"new_cost\": 2}"
http://localhost:5001/update-cost/1

```
C:\Users\Msys\pro\venv>curl -X PUT -H "Content-Type: application/json" -d "{\"new_cost\": 70 }" http://localhost:5001/up
date-cost/1
{
    "Message": "Cost updated successfully",
    "item": {
        "ID": "1",
        "Title": "How to get a good grade in DOS in 40 minutes a day",
        "cost": 70,
        "stock": 5,
        "topic": "distributed systems"
    }
}
```

data.csv:

```
ID,Title,stock,cost,topic

1,How to get a good grade in DOS in 40 minutes a day,5,70,distributed systems

2,RPCs for Noobs,2,55,distributed systems

3,Xen and the Art of Surviving Undergraduate School,0,70,undergraduate school

4,Cooking for the Impatient Undergrad,13,65,undergraduate school
```

Update stock & cost:

curl -X PUT -H "Content-Type: application/json" -d "{\"new_stock\": 12, \"new_cost\": 55}" http://localhost:5001/update-stock-and-cost/1

```
C:\Users\Msys\pro\venv>curl -X PUT -H "Content-Type: application/json" -d "{\"new_stock\": 12 ,\"new_cost\": 55 }" http:
//localhost:5001/update-stock-and-cost/1

{
    "Message": "Stock and Cost updated successfully",
    "item": {
        "ID": "1",
        "Title": "How to get a good grade in DOS in 40 minutes a day",
        "cost": 55,
        "stock": 12,
        "topic": "distributed systems"
    }
}
```

data.csv:

Purchase:

curl -X POST http://localhost:5002/purchase/1

```
C:\Users\Msys\pro\venv>
C:\Users\Msys\pro\venv>curl -X POST http://localhost:5002/purchase/1
{
    "ItemNumber": 1,
    "Status": "Purchase Successful",
    "Time": "19:33:34",
    "Title": "How to get a good grade in DOS in 40 minutes a day"
}
```

Data.csv:

Order_log.csv:

```
1,How to get a good grade in DOS in 40 minutes a day,Purchase Successful,19:33:34
3,Xen and the Art of Surviving Undergraduate School,Sold out,19:33:58
```

Book Sold out:

curl -X POST http://localhost:5002/purchase/3

```
C:\Users\Msys\pro\venv>curl -X POST http://localhost:5002/purchase/3
{
    "Error": "Item sold out "
}
```

Order log.csv:

```
8 1,How to get a good grade in DOS in 40 minutes a day,Purchase Successful,19:33:34
9 3,Xen and the Art of Surviving Undergraduate School,Sold out,19:33:58
10
```

From frontend server:

http://localhost:5002/purchase/3

```
C:\Users\Msys\pro\venv>curl -X POST http://localhost:5000/purchase/1
{
    "ItemNumber": 1,
    "Status": "Purchase Successful",
    "Time": "19:40:19",
    "Title": "How to get a good grade in DOS in 40 minutes a day"
}
```

Docker:

We created a Docker file for each server



Build docker:

```
PS C:\Users\Msys\pro\venv\catalog> docker build -t prodos_python .

[+] Building 164.9s (11/11) FINISHED

> [internal] load .dockerignone

> (-) transferring context: 2B

= [internal] load build definition from Dockerfile

> > transferring dockerfile: 3998

> [internal] load metadata for docker.io/library/ubuntu:latest

> [internal] load metadata for docker.io/library/ubuntu:latest

> [internal] load build context

> [internal] load build context

> (-) [internal] load build context

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| (-) [internal] load metadata for docker.io/library/buolate
| (-) [internal] load metadata for docker.io/libra
```

Frontend server on command:

```
* Serving Flask app 'frontend'

* Debug mode: on
WARNING: This is a development server. Bo not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.0.0.1:5000
Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

* Debugger PIN: 979-579-681

127.0.0.1 - - [20/Nov/2023 19:06:41] "GET /info/1 HTTP/1.1" 200 -

127.0.0.1 - - [20/Nov/2023 19:07:24] "GET /search/%20undergraduate%20school HTTP/1.1" 200 -

127.0.0.1 - - [20/Nov/2023 19:07:31] "GET /search/windergraduate%20school HTTP/1.1" 200 -

* Detected change in 'C:\\Users\\Msys\\pro\\venv\\front-end\\frontend.py', reloading

* Restarting with stat

* Debugger PIN: 979-579-681
```