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": 70,
    "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": 60,
    "stock": 18,
    "title": "Cooking for the Impatient Undergrad",
    "topic": "undergraduate school"
}
```

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

Update cost or stock:

- Update stock:

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

```
C:\Users\Msys\pro\venv\catalog>curl -X PUT -H "Content-Type: application/json" -d "{\"stock\": 5}" http://localhost:5001
/update/1
{
"Message": "Updated Successful"
}
```

- Update cost:

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

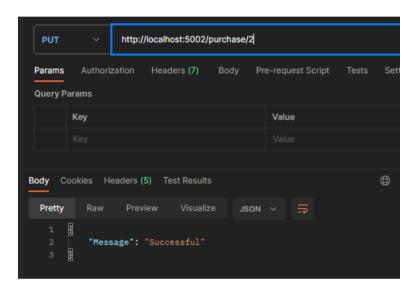
```
C:\Users\Msys\pro\venv> curl -X PUT -H "Content-Type: application/json" -d "{\"cost\": 2}" http://localhost:5001/update/
1
{
"Message": "Updated Successful"
}
C:\Users\Msys\pro\venv>
```

Purchase:

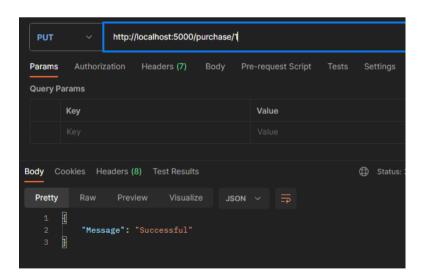
```
C:\Users\Msys\pro\venv>curl -X PUT http://localhost:5002/purchase/1
{
    "Message": "Successful"
}
```

From order server:

PUT: http://localhost:5002/purchase/item number

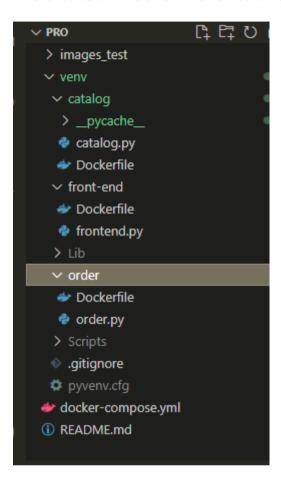


From frontend server:



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

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```

Frontend server on command:

```
* Serving Flask app 'frontend'

* Debug mode: on

WARNING: Inis 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/undergraduate%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
```