Search by Topic:

```
C:\Users\asus\PycharmProjects\Homework\DOS>Catalog.py
 * Serving Flask app "Catalog" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 142-517-637
 * Running on http://127.0.0.1:8000/ (Press CTRL+C to quit)
127.0.0.1 - - [09/Nov/2021 13:36:20] "[37mGET /search/distributed%20systems HTTP/1.1[0m
```

```
C:\Users\asus\PycharmProjects\Homework\DOS>Client.py
Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
1
Enter Topic name
distributed systems
[{'ID': 0, 'name': 'How to get a good grade in DOS in 40 minutes a day', 'topic': 'distributed systems', 'stock': 51,
ost': 20}, {'ID': 1, 'name': 'RPCs for Noobs', 'topic': 'distributed systems', 'stock': 2, 'cost': 100}]
Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
```

Search by ID:

```
C:\Users\asus\PycharmProjects\Homework\DOS>Catalog.py
 * Serving Flask app "Catalog" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 142-517-637
 * Running on http://127.0.0.1:8000/ (Press CTRL+C to quit)
127.0.0.1 - - [09/Nov/2021 13:36:20] "[37mGET /search/distributed%20systems HTTP/1.1[0m[0m
127.0.0.1 - - [09/Nov/2021 13:39:14] "[37mGET /info/1 HTTP/1.1[0m" 200 -
```

```
C:\Users\asus\PycharmProjects\Homework\DOS>Client.py
Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
2
Enter ID of book
1
{'ID': 1, 'name': 'RPCs for Noobs', 'topic': 'distributed systems', 'stock': 2, 'cost': 100}
Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
```

Purchase:

```
C:\Users\asus\PycharmProjects\Homework\DOS>Catalog.py
 * Serving Flask app "Catalog" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 142-517-637
 * Running on http://127.0.0.1:8000/ (Press CTRL+C to quit)
127.0.0.1 - - [09/Nov/2021 13:36:20] "[37mGET /search/distributed%20systems HTTP/1.1[0m[0m
127.0.0.1 - - [09/Nov/2021 13:39:14] "[37mGET /info/1 HTTP/1.1[0m" 200 -
127.0.0.1 - - [09/Nov/2021 13:39:49] "[37mPUT /update/1 HTTP/1.1[0m" 200 -
127.0.0.1 - - [09/Nov/2021 13:40:18] "[37mGET /info/1 HTTP/1.1[0m" 200 -
```

```
C:\Windows\System32\cmd.exe - Orderlog.py
C:\Users\asus\PycharmProjects\Homework\DOS>Orderlog.py
 * Serving Flask app "Orderlog" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 142-517-637
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [09/Nov/2021 13:39:49] "[37mPUT /purchase/1 HTTP/1.1[0m" 200 -
```

```
C:\Users\asus\PycharmProjects\Homework\DOS>Client.py
Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
3
Enter ID of book
1
"Item 1 purchased successfully"

Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
2
Enter ID of book
1
{'ID': 1, 'name': 'RPCs for Noobs', 'topic': 'distributed systems', 'stock': 1, 'cost': 100}
Enter Operation you want to perform
 1 --> Search by Topic
 2--> Search by ID
 3-->Purchase
 4--> Exit
```

Info is done after Purchase here to show the change in DB

orderlog.txt - Notepad

File Edit Format View Help

```
    "cost": 100
}

{
    "ID": 1,
    "name": "RPCs for Noobs",
    "topic": "distributed systems",
    "stock": 2,
    "cost": 100
}

{
    "ID": 1,
    "name": "RPCs for Noobs",
    "topic": "distributed systems",
    "stock": 1,
    "cost": 100
}
```