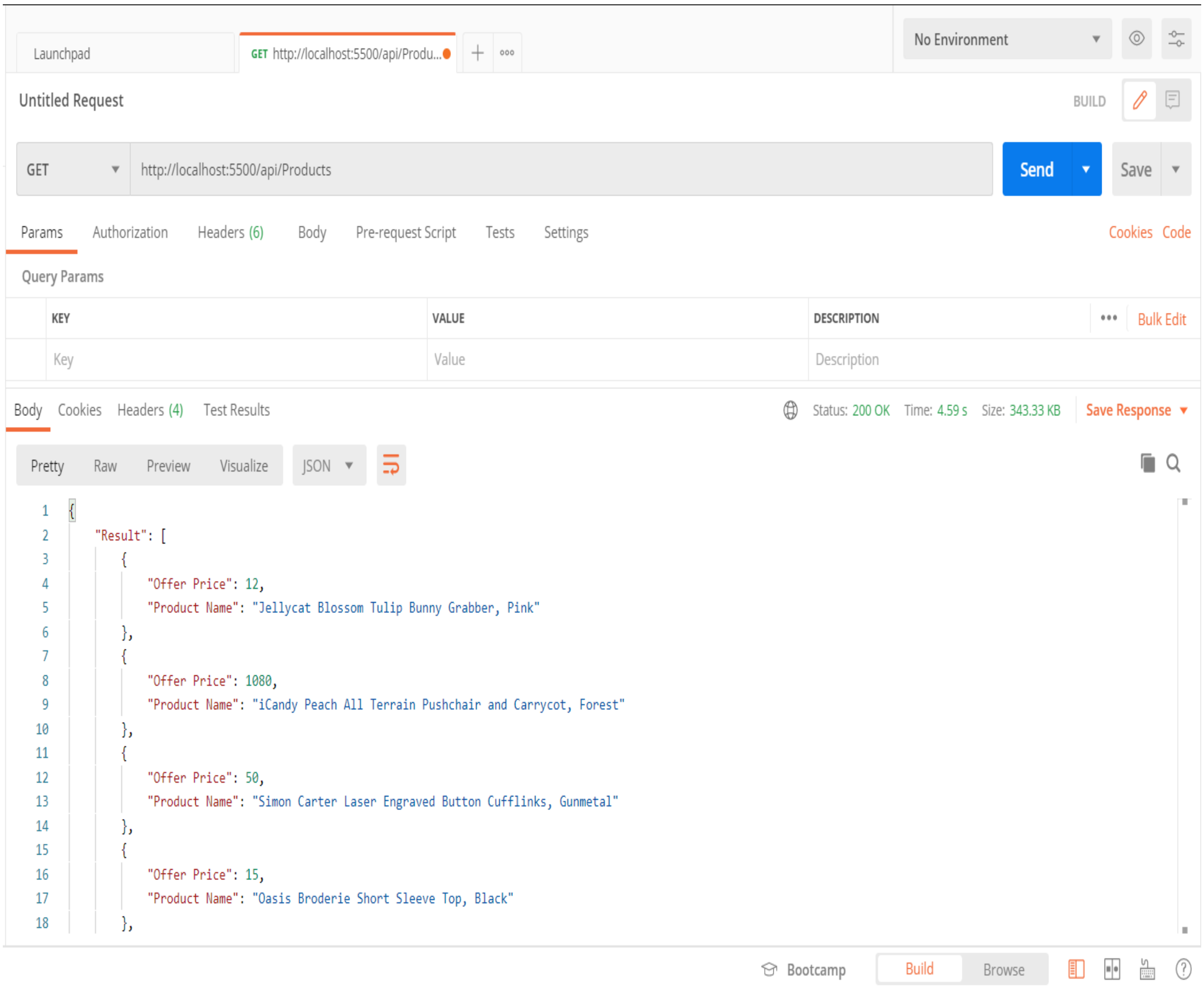
GREENDECK
TASK 1

Task: Create a RESTful API using Python and host it locally using Docker.

CRUD OPERATIONS POSTMAN SCREENSHOTS

1. READ/LIST Operation

- API Endpoint: /api/Products
- Method: GET



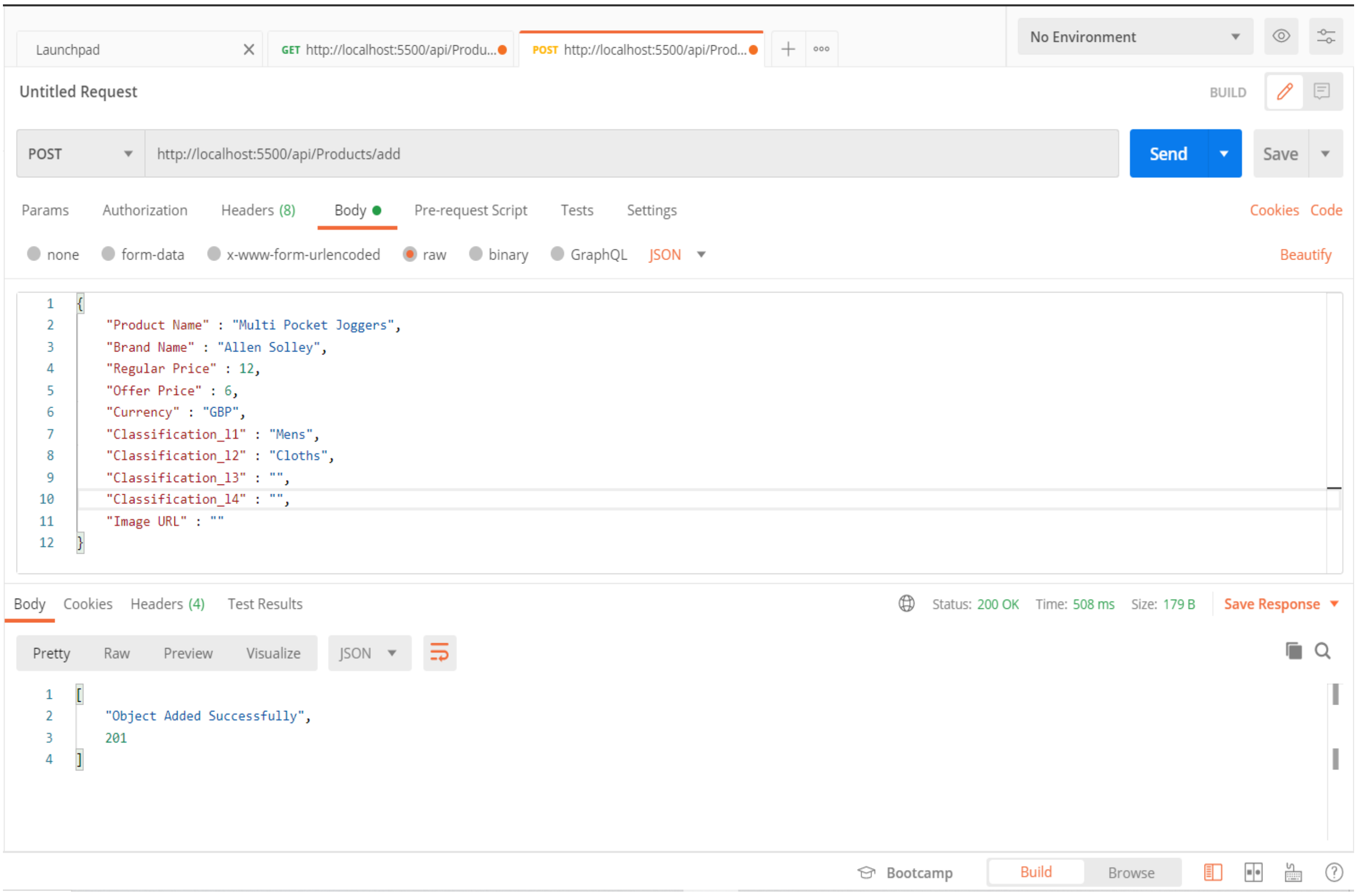
GET http://localhost:5500/api/Products

Status: 200 OK Time: 4.59 s Size: 343.33 KB

```
{
    "Result": [
        {
            "Offer Price": 12,
            "Product Name": "Jellycat Blossom Tulip Bunny Grabber, Pink"
        },
        {
            "Offer Price": 1080,
            "Product Name": "iCandy Peach All Terrain Pushchair and Carrycot, Forest"
        },
        {
            "Offer Price": 50,
            "Product Name": "Simon Carter Laser Engraved Button Cufflinks, Gunmetal"
        },
        {
            "Offer Price": 15,
            "Product Name": "Oasis Broderie Short Sleeve Top, Black"
        },
```

2. CREATE/ADD/INSERT Operation

- API Endpoint: /api/Products/add
- Method: POST

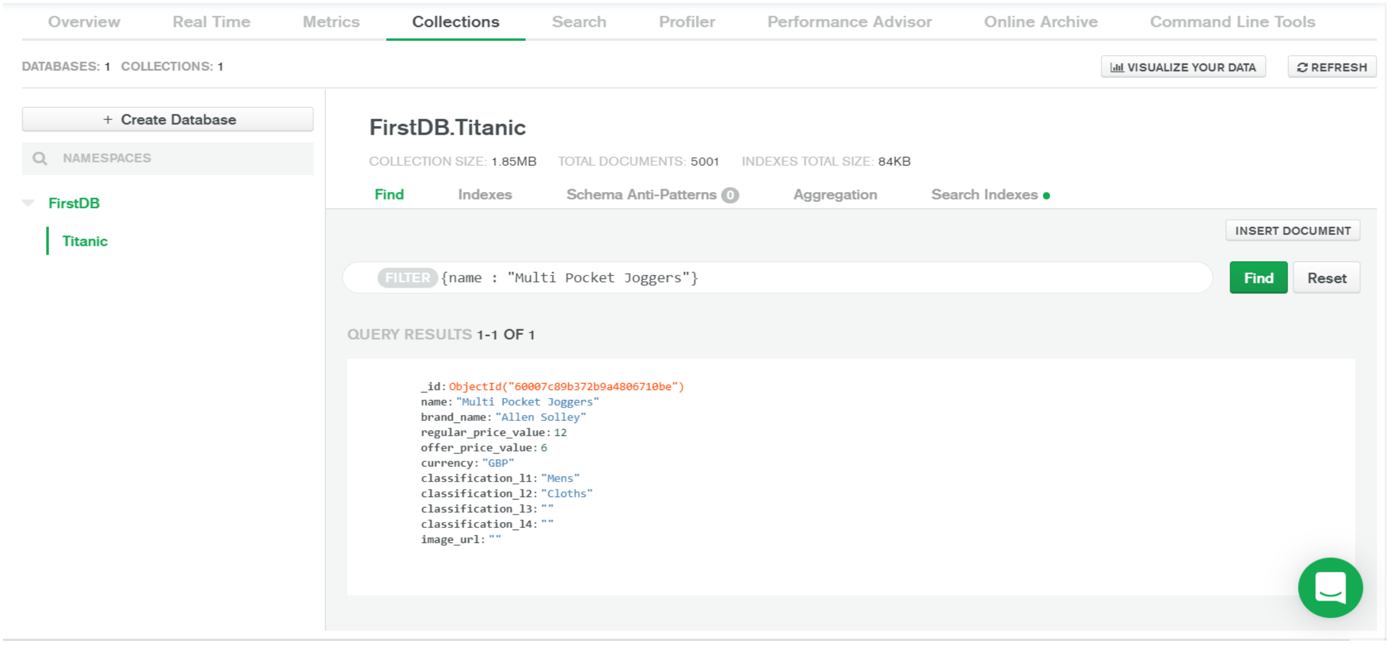


POST http://localhost:5500/api/Products/add

```
{
    "Product Name" : "Multi Pocket Joggers",
    "Brand Name" : "Allen Solley",
    "Regular Price" : 12,
    "Offer Price" : 6,
    "Currency" : "GBP",
    "Classification_l1" : "Mens",
    "Classification_l2" : "Cloths",
    "Classification_l3" : "",
    "Classification_l4" : "",
    "Image URL" : ""
}
```

Status: 200 OK Time: 508 ms Size: 179 B

```
[
    "Object Added Successfully",
    201
]
```



DATABASES: 1 COLLECTIONS: 1

FirstDB.Titanic

COLLECTION SIZE: 1.85MB TOTAL DOCUMENTS: 5001 INDEXES TOTAL SIZE: 84KB

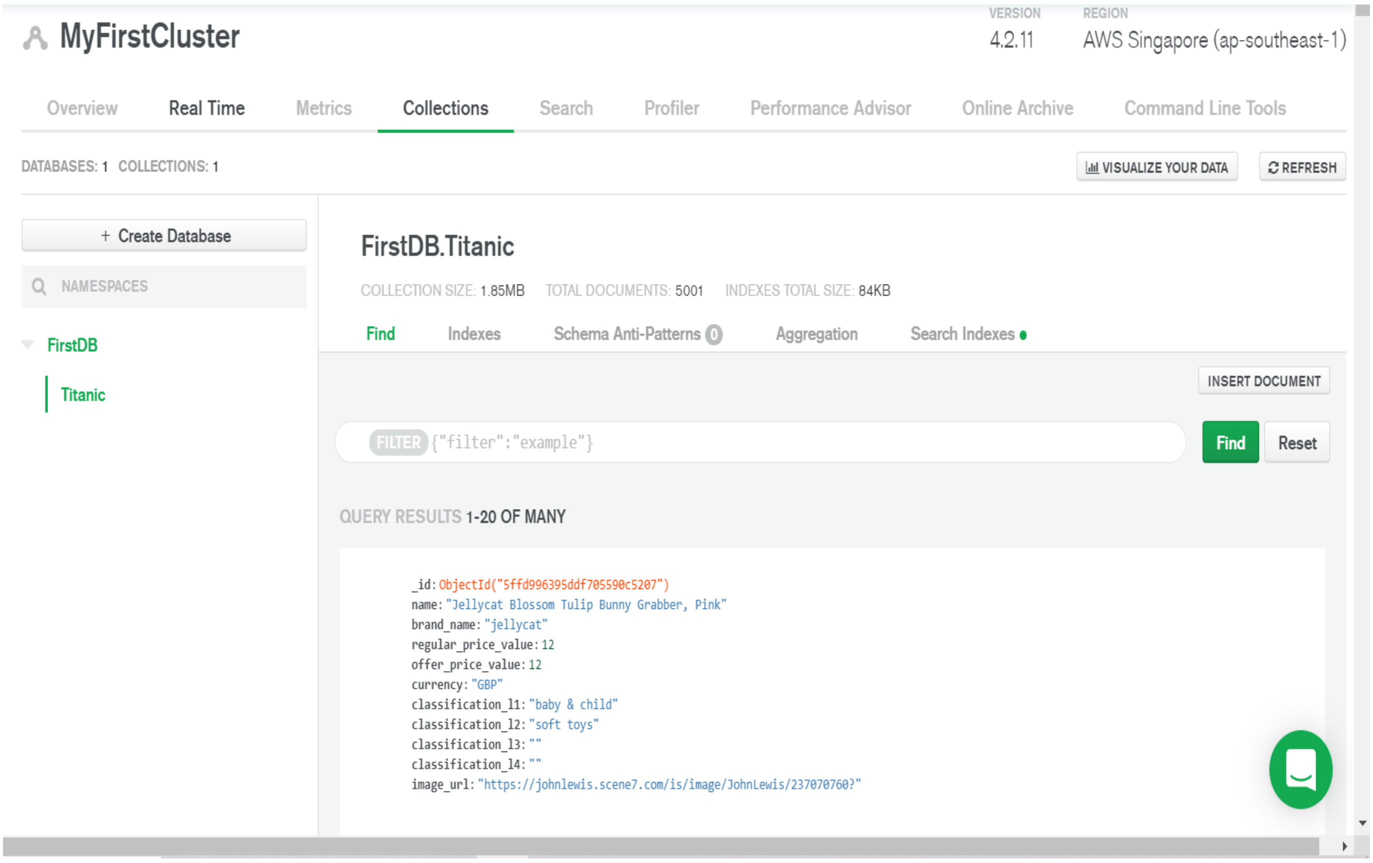
FILTER {name : "Multi Pocket Joggers"}

QUERY RESULTS 1-1 OF 1

```
_id: ObjectId("60007c89b372b9a4806710be")
name: "Multi Pocket Joggers"
brand_name: "Allen Solley"
regular_price_value: 12
offer_price_value: 6
currency: "GBP"
classification_l1: "Mens"
classification_l2: "Cloths"
classification_l3: ""
classification_l4: ""
image_url: ""
```

3. UPDATE Operation

- API Endpoint: /api/Products/update/<id>
- Method: PUT



DATABASES: 1 COLLECTIONS: 1

FirstDB.Titanic

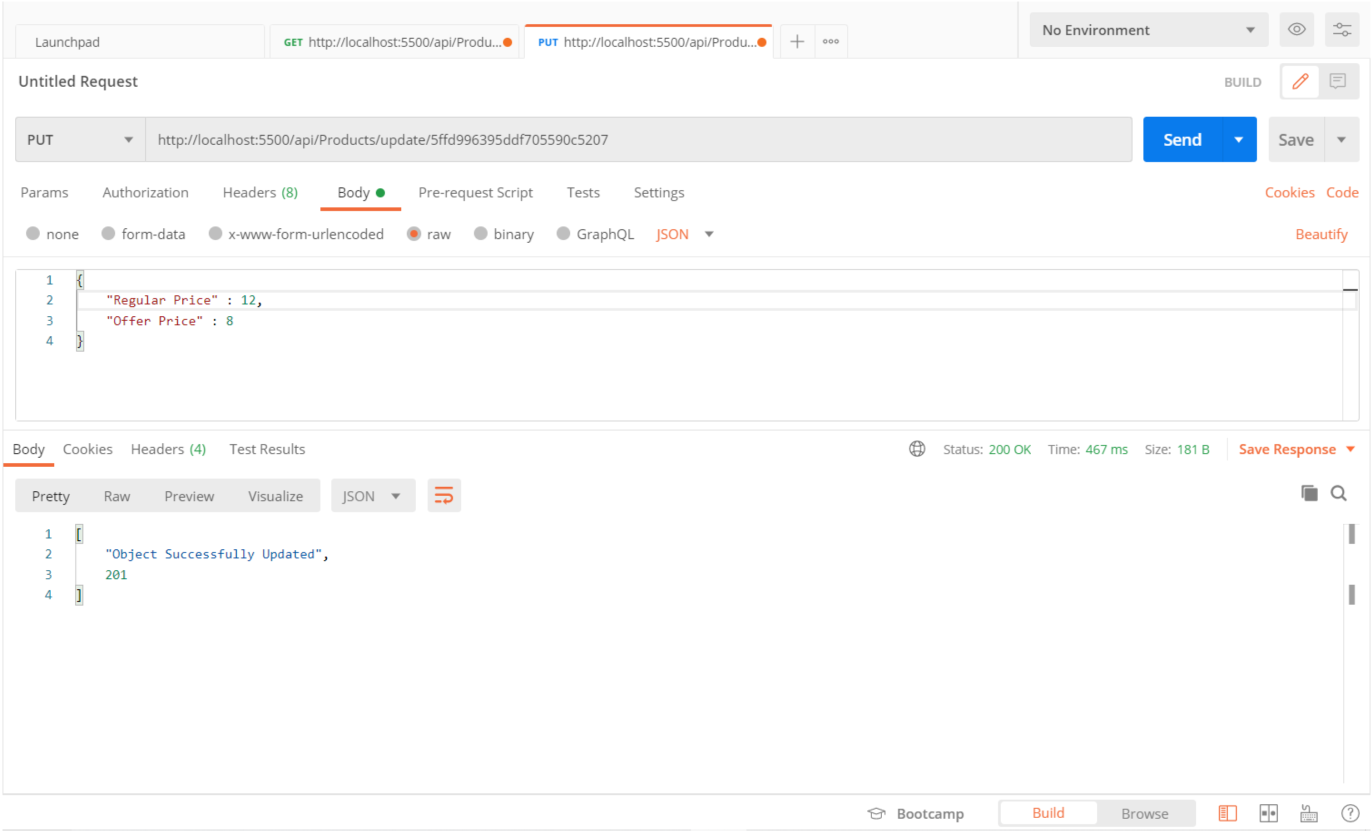
COLLECTION SIZE: 1.85MB TOTAL DOCUMENTS: 5001 INDEXES TOTAL SIZE: 84KB

{"filter":"example"}

QUERY RESULTS 1-20 OF MANY

```
_id: ObjectId("5ffd996395ddf705590c5207")
name: "Jellycat Blossom Tulip Bunny Grabber, Pink"
brand_name: "jellycat"
regular_price_value: 12
offer_price_value: 12
currency: "GBP"
classification_l1: "baby & child"
classification_l2: "soft toys"
classification_l3: ""
classification_l4: ""
image_url: "https://johnlewis.scene7.com/is/image/JohnLewis/237070760?"
```

Offer Price before Update is “12”.

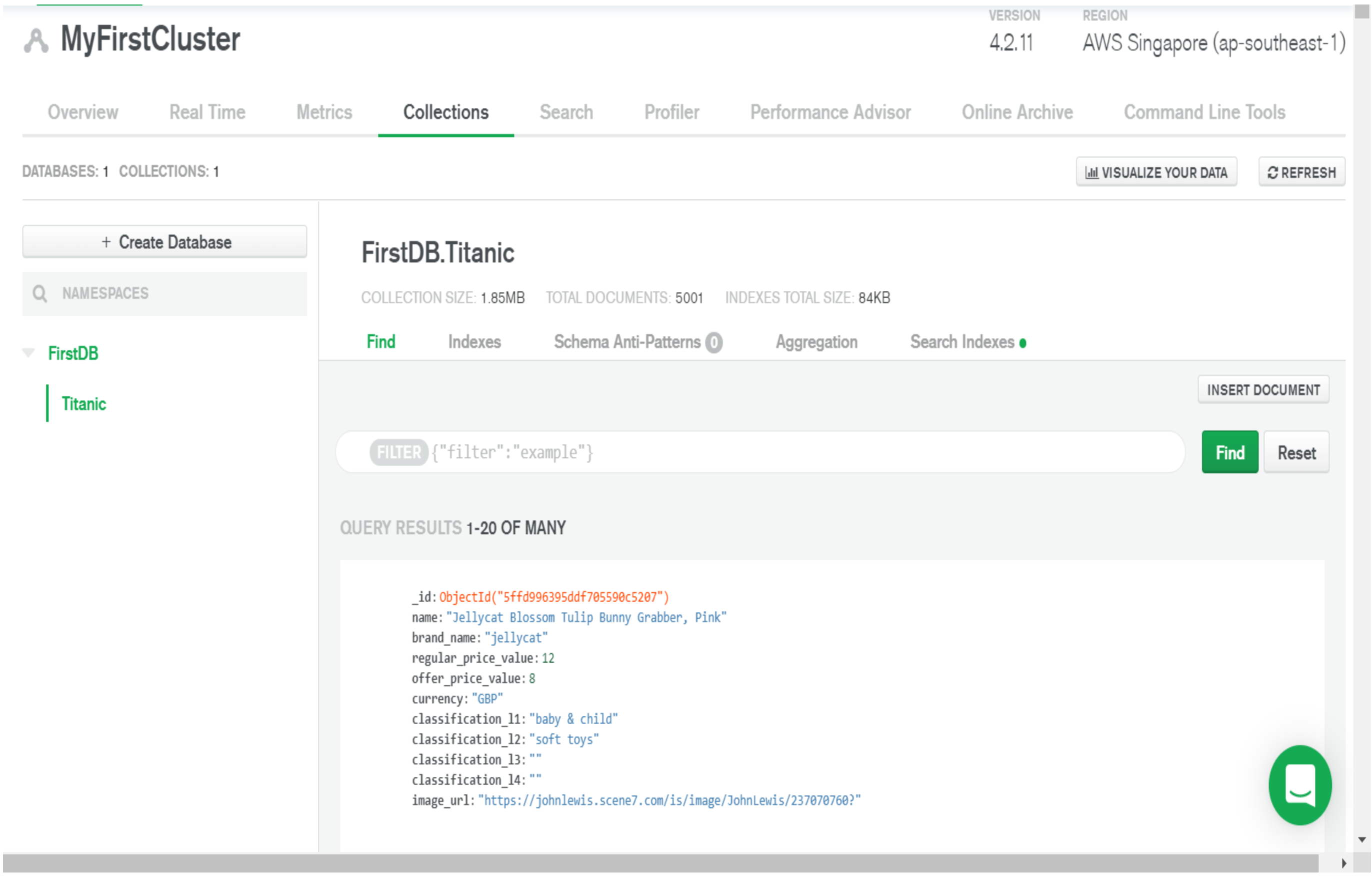


PUT http://localhost:5500/api/Products/update/5ffd996395ddf705590c5207

```
{
    "Regular Price" : 12,
    "Offer Price" : 8
}
```

Status: 200 OK Time: 467 ms Size: 181 B

```
[
    "Object Successfully Updated",
    201
]
```



DATABASES: 1 COLLECTIONS: 1

FirstDB.Titanic

COLLECTION SIZE: 1.85MB TOTAL DOCUMENTS: 5001 INDEXES TOTAL SIZE: 84KB

{"filter":"example"}

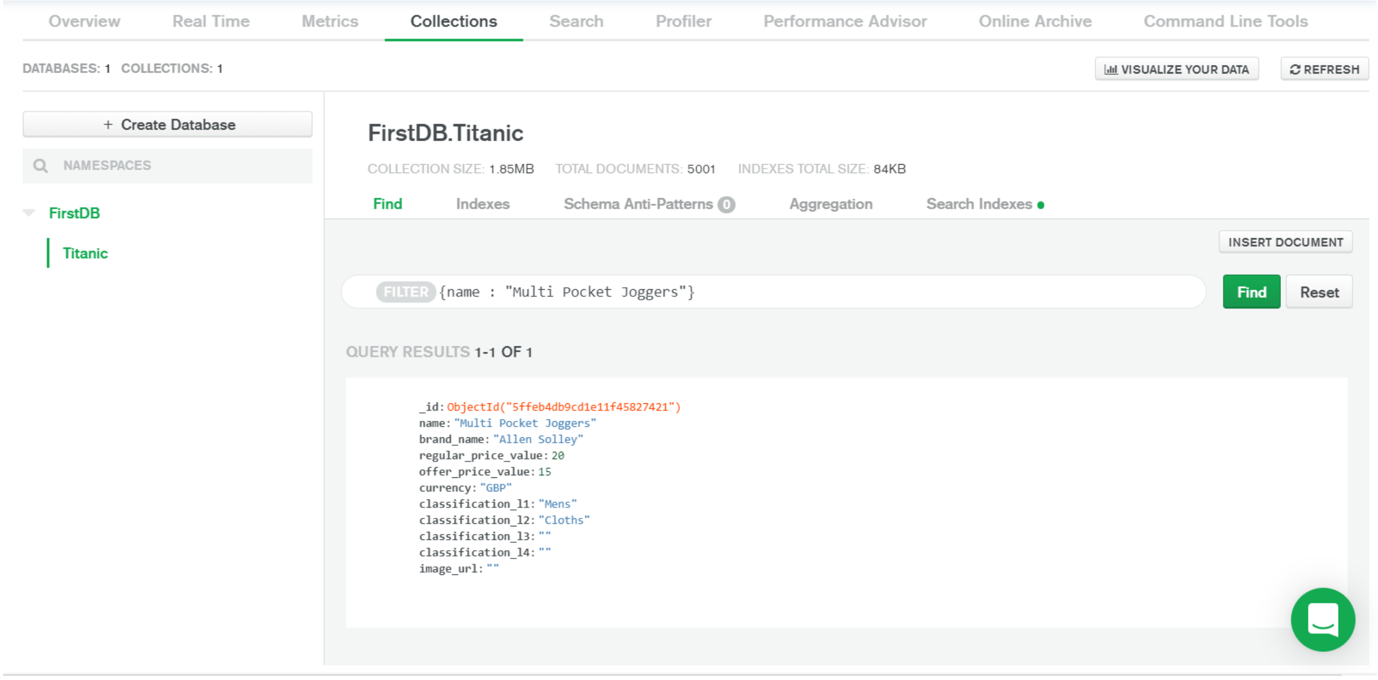
QUERY RESULTS 1-20 OF MANY

```
_id: ObjectId("5ffd996395ddf705590c5207")
name: "Jellycat Blossom Tulip Bunny Grabber, Pink"
brand_name: "jellycat"
regular_price_value: 12
offer_price_value: 8
currency: "GBP"
classification_l1: "baby & child"
classification_l2: "soft toys"
classification_l3: ""
classification_l4: ""
image_url: "https://johnlewis.scene7.com/is/image/JohnLewis/237070760?"
```

Offer Price after the update is “8”.

4. DELETE Operation

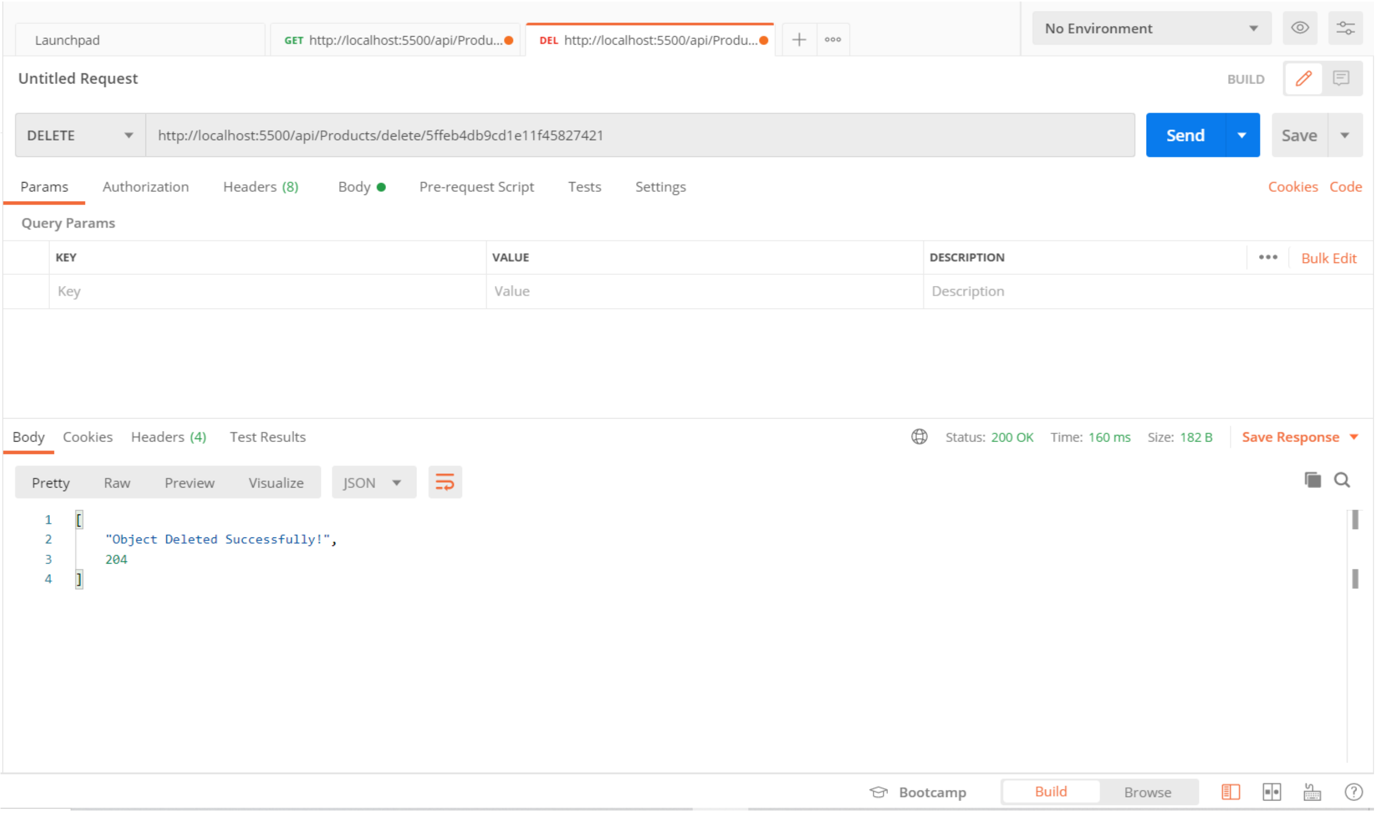
- API Endpoint: /api/Products/delete/<id>
- Method: DELETE



FILTER {name : "Multi Pocket Joggers"}

```
_id: ObjectId("5ffeb4db9cd1e11f45827421")
name: "Multi Pocket Joggers"
brand_name: "Allen Solley"
regular_price_value: 20
offer_price_value: 15
currency: "GBP"
classification_l1: "Mens"
classification_l2: "Cloths"
classification_l3: ""
classification_l4: ""
image_url: ""
```

Products is present before deletion operation.

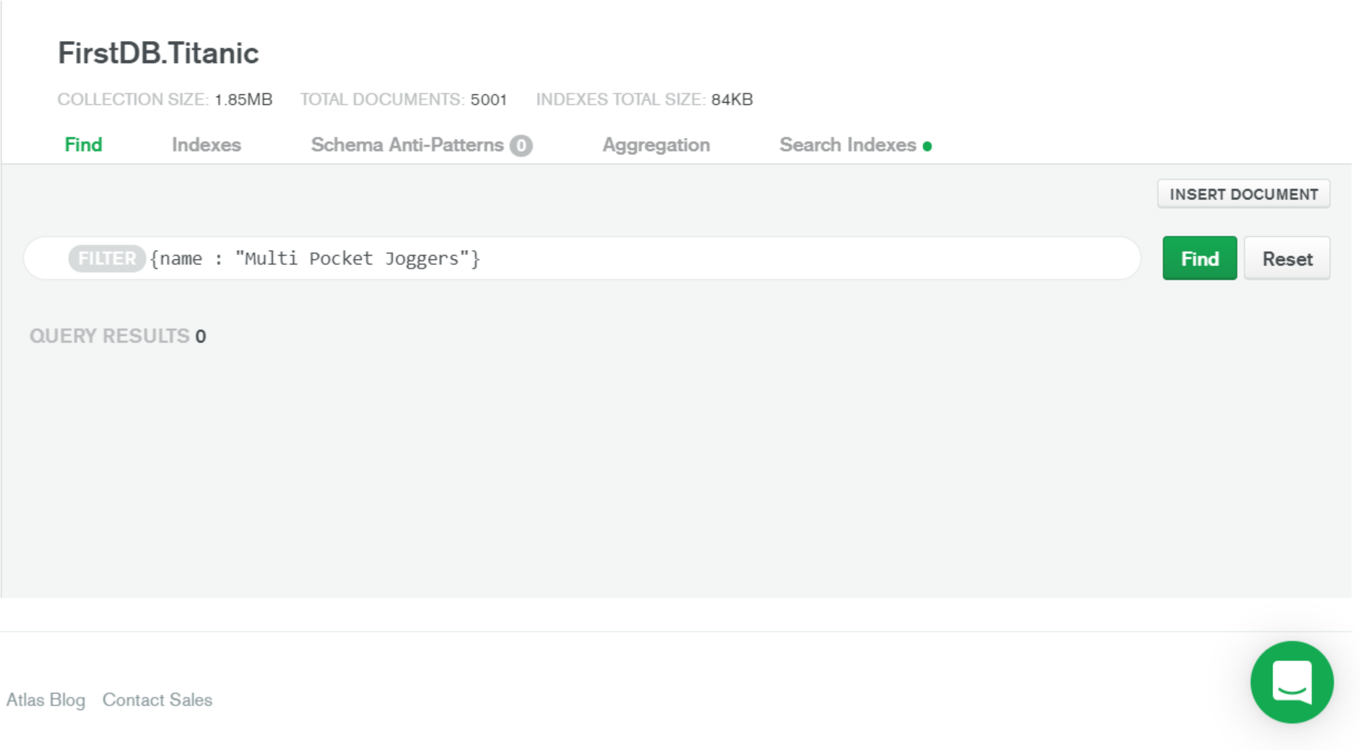


DELETE http://localhost:5500/api/Products/delete/5ffeb4db9cd1e11f45827421

Status: 200 OK Time: 160 ms Size: 182 B

```
[
    "Object Deleted Successfully!",
    204
]
```

Product deleted successfully.

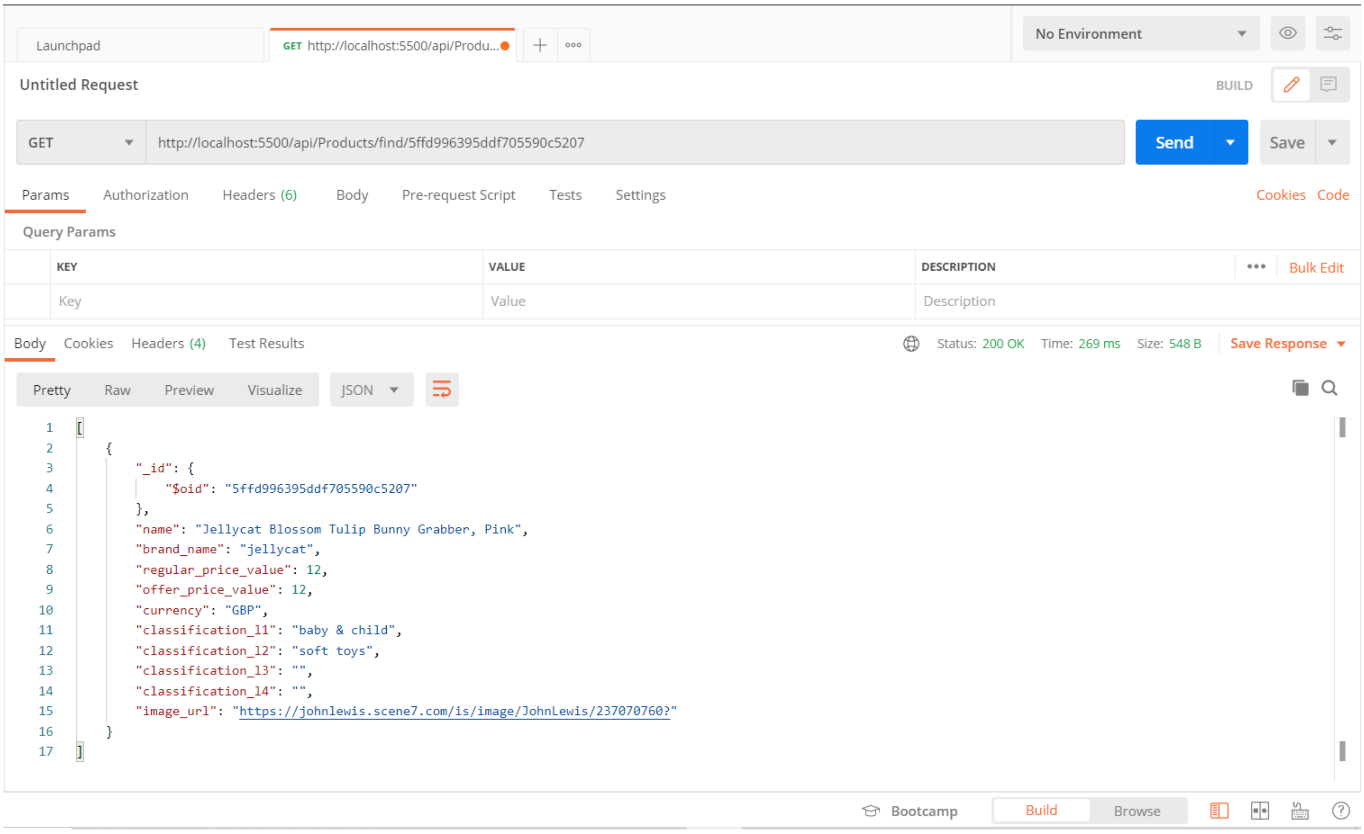


```
{name : "Multi Pocket Joggers"}
```

QUERY RESULTS 0

5. FIND Operation

- API Endpoint: /api/Products/find/<id>
- Method: GET

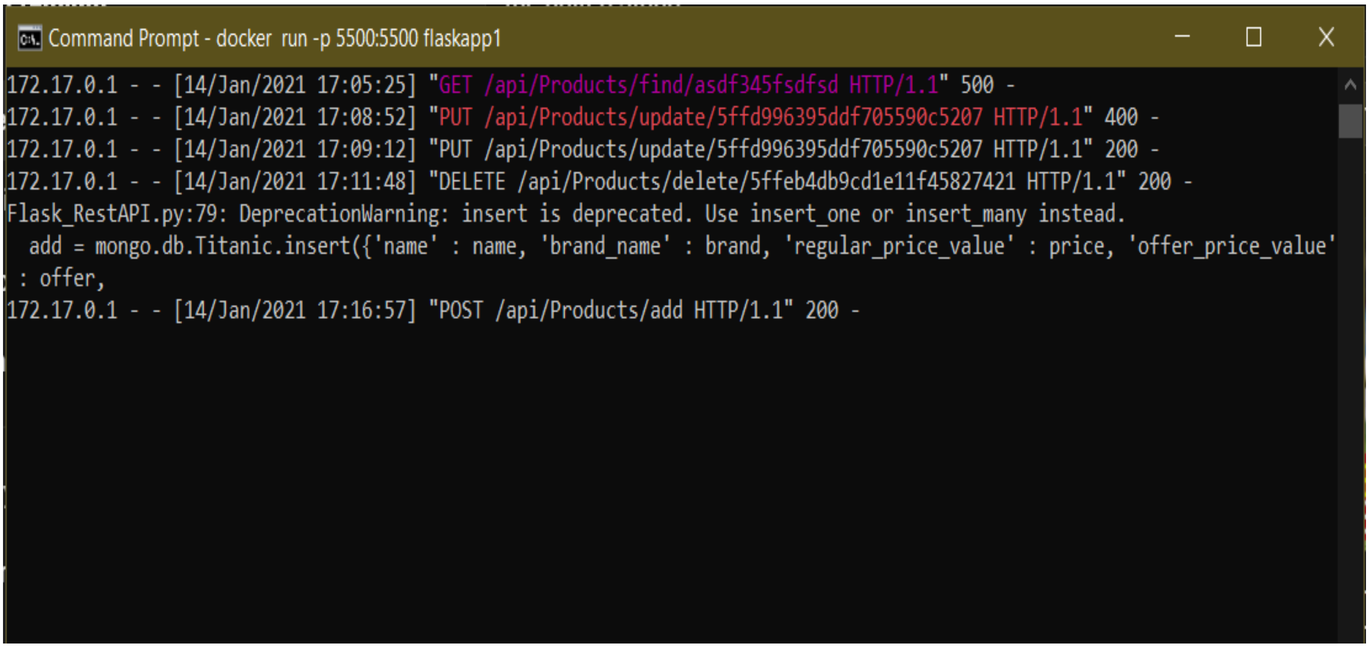


GET http://localhost:5500/api/Products/find/5ffd996395ddf705590c5207

Status: 200 OK Time: 269 ms Size: 548 B

```
[
    {
        "_id": {
            "$oid": "5ffd996395ddf705590c5207"
        },
        "name": "Jellycat Blossom Tulip Bunny Grabber, Pink",
        "brand_name": "jellycat",
        "regular_price_value": 12,
        "offer_price_value": 12,
        "currency": "GBP",
        "classification_l1": "baby & child",
        "classification_l2": "soft toys",
        "classification_l3": "",
        "classification_l4": "",
        "image_url": "https://johnlewis.scene7.com/is/image/JohnLewis/237070760?"
    }
]
```

Product found.



```
172.17.0.1 - - [14/Jan/2021 17:05:25] "GET /api/Products/find/asdf345fsdfsd HTTP/1.1" 500 -
172.17.0.1 - - [14/Jan/2021 17:08:52] "PUT /api/Products/update/5ffd996395ddf705590c5207 HTTP/1.1" 400 -
172.17.0.1 - - [14/Jan/2021 17:09:12] "PUT /api/Products/update/5ffd996395ddf705590c5207 HTTP/1.1" 200 -
172.17.0.1 - - [14/Jan/2021 17:11:48] "DELETE /api/Products/delete/5ffeb4db9cd1e11f45827421 HTTP/1.1" 200 -
Flask_RestAPI.py:79: DeprecationWarning: insert is deprecated. Use insert_one or insert_many instead.
  add = mongo.db.Titanic.insert({'name' : name, 'brand_name' : brand, 'regular_price_value' : price, 'offer_price_value'
 : offer,
172.17.0.1 - - [14/Jan/2021 17:16:57] "POST /api/Products/add HTTP/1.1" 200 -
```

Please correct me or let me know, If I’ve made any mistake or something is not clear through the screenshots.

Thanks,

Aditya Sisodiya