

Inventory Management:

Detailed steps to run project with screenshots:

Note: Connection String - To be generic

Tools used:

- Visual Studio 2019
- Sql Server 2014

1) To List the items in the inventory

The <https://localhost:44354/api/products> endpoint provided to lists the item from the inventory. It returns all product information.

Method: GET

URL: <https://localhost:44354/api/products>

The screenshot displays a REST client interface with the following components:

- Request Bar:** Method: GET, URL: <https://localhost:44354/api/products>, Params: empty, Send button.
- Request Tabs:** Authorization, Headers, Body, Pre-request Script, Tests.
- Auth Section:** Type: No Auth.
- Response Section:** Body, Cookies, Headers (10), Test Results. Status: 200 OK.
- Response Body:** JSON format, Pretty view. The response is an array of three product objects.

```
1 [
2   {
3     "Id": 1,
4     "Name": "LG TV",
5     "Description": "LG television",
6     "Price": 300000,
7     "Brand": "LG"
8   },
9   {
10    "Id": 2,
11    "Name": "Sony TV",
12    "Description": "Sony television",
13    "Price": 800000,
14    "Brand": "Sony"
15  },
16  {
17    "Id": 3,
18    "Name": "Xiaomi TV",
19    "Description": "Xiaomi television",
20    "Price": 600000,
21    "Brand": "Mi"
22  }
23 ]
```

2) To Add a new item to the inventory

The <https://localhost:44354/api/products> endpoint allows you to add the product in the inventory.

The screenshot shows a REST client interface with the following configuration:

- Method:** POST
- URL:** <https://localhost:44354/api/products>
- Params:** (empty)
- Buttons:** Send, Save
- Tabs:** Authorization (selected), Headers (2), Body, Pre-request Script, Tests
- Authorization:**
 - Type: Basic Auth
 - Buttons: Clear, Update Request
 - Username: admin
 - Password: admin
 - Save helper data to request: ☐
 - Show Password: ☒
 - Help text: The authorization header will be generated and added as a custom header

- Only admin can add new product in the inventory. Have to follow authentication steps.
- Select Authorization -> Type -> Basic Auth -> Provide Username & password

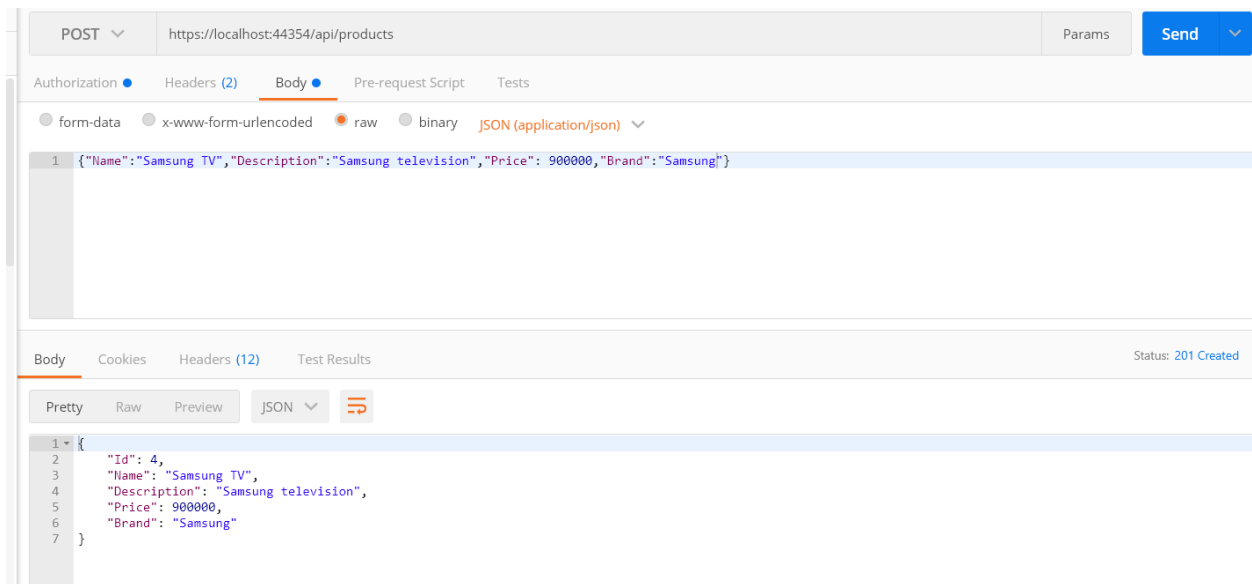
Admin Authentication:

Username: **admin**

Password: **admin**

Method: POST

URL: <https://localhost:44354/api/products>



Include in Body:

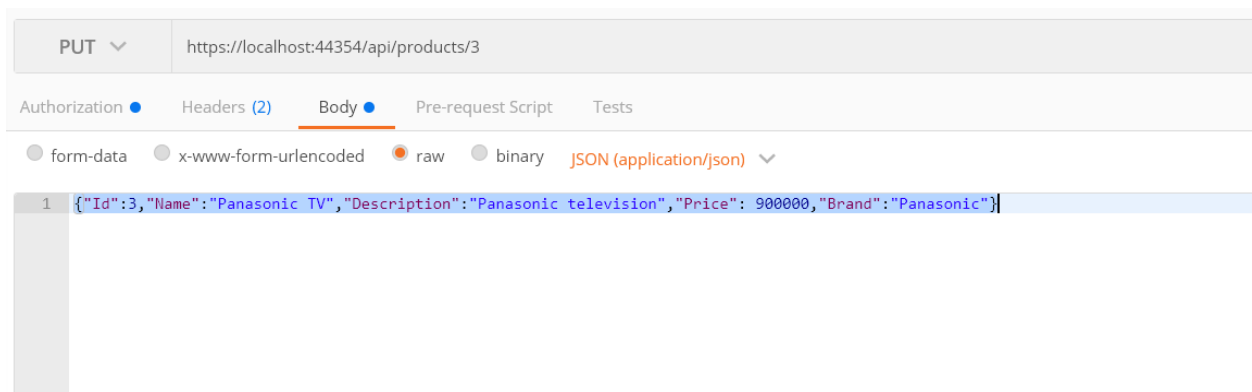
```
{"Name": "SamsungTV", "Description": "Samsung", "television", "Price": 900000, "Brand": "Samsung"}
```

3) Modify an item in the inventory

The <https://localhost:44354/api/products/3> endpoint allows you to update the product of inventory.

Method: PUT

URL: <https://localhost:44354/api/products/3>



Include in body:

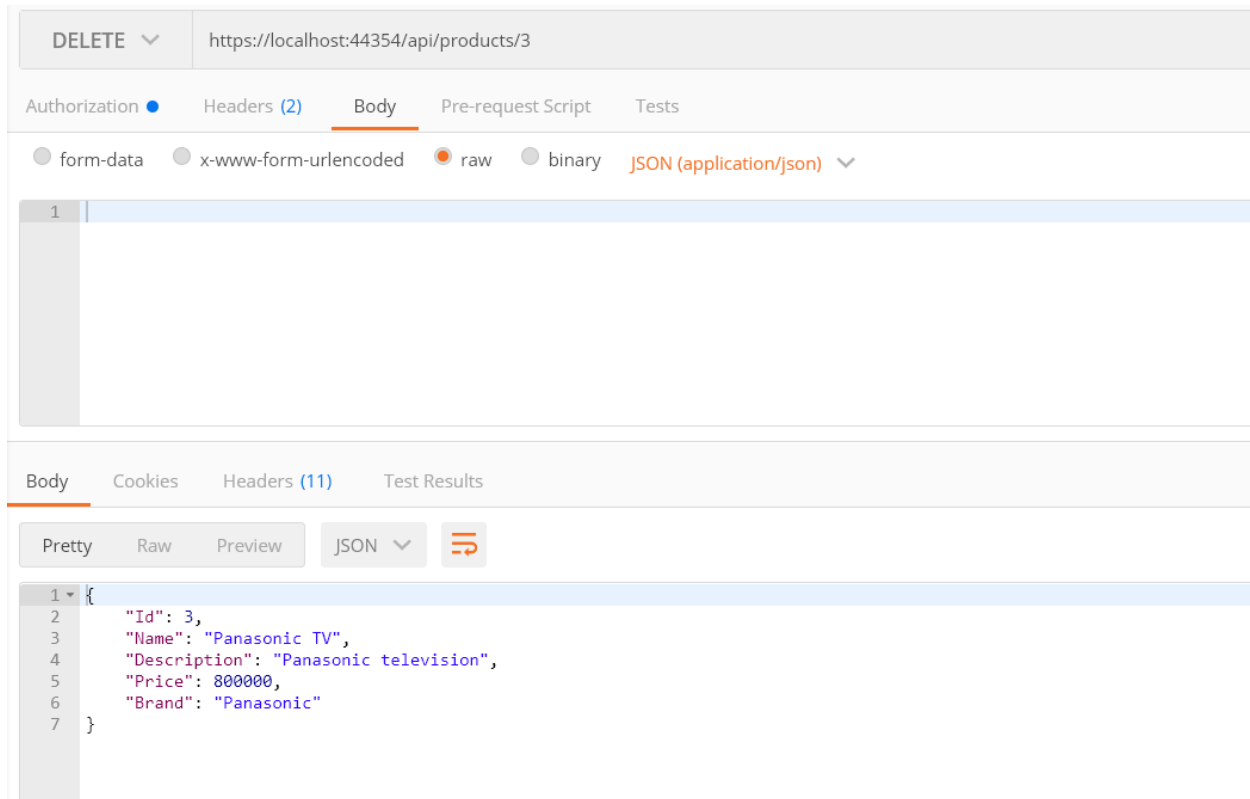
```
{"Id":3,"Name":"PanasonicTV","Description":"PanasonicTelevision","Price":800000,"Brand":"Panasonic"}
```

4) Delete an item from the inventory

The <https://localhost:44354/api/products/3> endpoint allows you to remove an Item. Once removed, the id associated with the Item is no longer valid and cannot be used to access any data that was associated with the id.

Method: Delete

URL: <https://localhost:44354/api/products/3>



5) Breakdown of time spent on different aspects of development:

- Data store design – 1 hour
- API and service logic - 4 hours
- Unit Test Coverage – 2 hours
- Documentation – 1 hour