Tanay Toshniwal
DevOps Project

ASP.Net Core Application

Docker Container ->

```
C:\Users\Administrator\Documents\SimpleCrudApp>docker run -d -p 5014:80 --name testcontainer yourappname
700e0f0b9329e0ef5ea9a83337be01a6737e2796457a7f1ab73272c1763a921c
```

	Name	Image	Status	Port(s)	Last started	Actions			Cl
☐	testcontainer 700e0f0b9329	yourappna <none>	Running	5014:80	2 hours ago	■	⋮	🗑	

POST Endpoint:

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X POST http://localhost:5014/api/items \
   -H "Content-Type: application/json" \
   -d '{"name": "Item to stay", "description": "This item will remain."}'

  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   134    0    69  100    65   5326   5017 --:--:-- --:--:-- --:--:-- 11166{"id":3,"name":"Item to stay","description":"This item will remain."}

Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X POST http://localhost:5014/api/items     -H "Content-Type: application/json"      -d '{"name": "Item to update", "description": "This item will be updated"}'
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   144    0    74  100    70   4579   4332 --:--:-- --:--:-- --:--:--  9000{"id":4,"name":"Item to update","description":"This item will be updated"}

Administrator@DESKTOP-OCBEKCK MINGW64 ~
$
```

PUT Endpoint:

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X PUT http://localhost:5014/api/items/4     -H "Content-Type: application/json"     -d '{"id": 4, "name": "Updated Item", "description": "This item will be deleted"}'
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100    77    0     0  100    77      0   8732 --:--:-- --:--:-- --:--:--  9625
```

DELETE endpoint:

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X DELETE http://localhost:5014/api/items/4
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
    0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
```
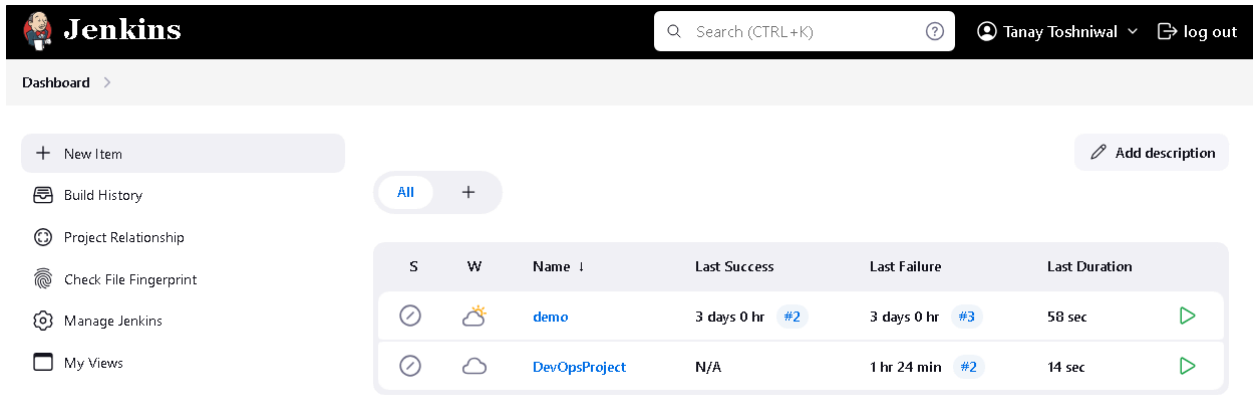
GET endpoint:

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X GET http://localhost:5014/api/items
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100    71    0    71    0     0   7208      0 --:--:-- --:--:-- --:--:--  7888[{"id":3,"name":"Item to stay","description":"This item will remain."}]
```
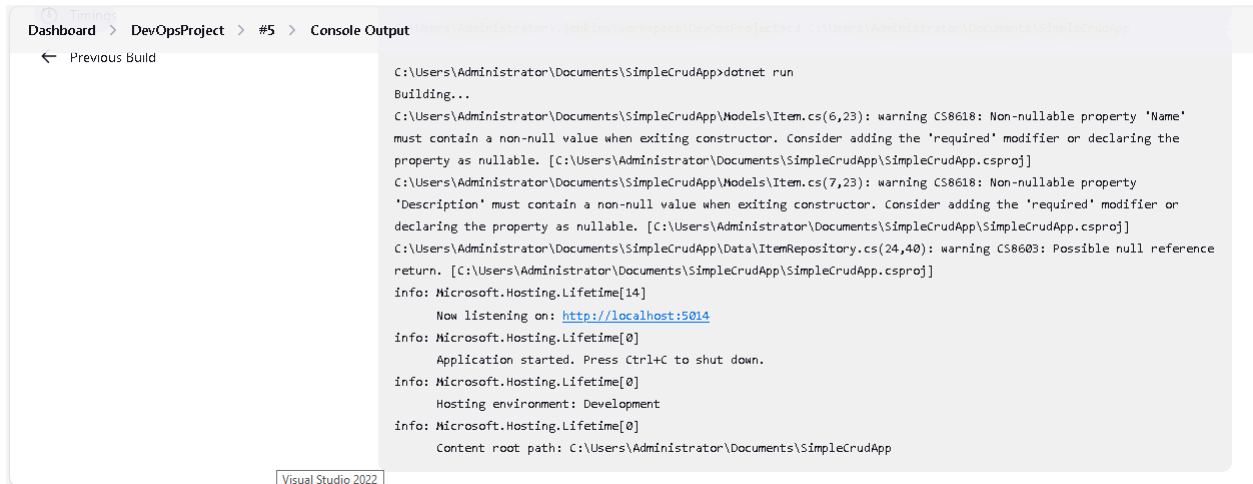
Jenkins ->

Jenkins

Dashboard >

+ New Item

📥 Build History

⊙ Project Relationship

🔍 Check File Fingerprint

⚙ Manage Jenkins

🖥 My Views

Add description

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration	
⊘	⛅	demo	3 days 0 hr #2	3 days 0 hr #3	58 sec	▷
⊘	☁	DevOpsProject	N/A	1 hr 24 min #2	14 sec	▷
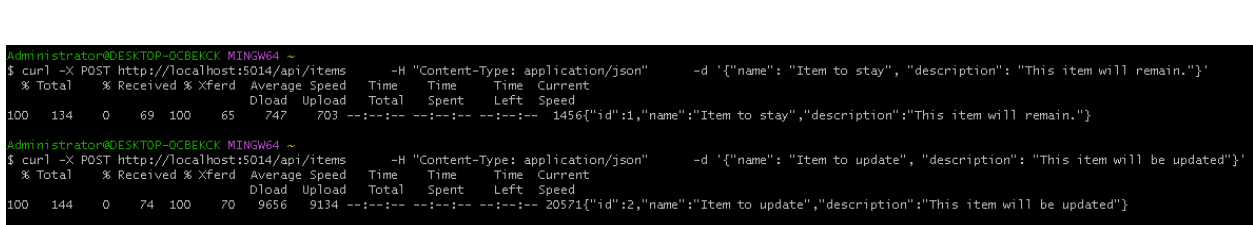
Running the app on build ->

Dashboard > DevOpsProject > #5 > Console Output

← Previous Build

```
C:\Users\Administrator\Documents\SimpleCrudApp>dotnet run
Building...
C:\Users\Administrator\Documents\SimpleCrudApp\Models\Item.cs(6,23): warning CS8618: Non-nullable property 'Name'
must contain a non-null value when exiting constructor. Consider adding the 'required' modifier or declaring the
property as nullable. [C:\Users\Administrator\Documents\SimpleCrudApp\SimpleCrudApp.csproj]
C:\Users\Administrator\Documents\SimpleCrudApp\Models\Item.cs(7,23): warning CS8618: Non-nullable property
'Description' must contain a non-null value when exiting constructor. Consider adding the 'required' modifier or
declaring the property as nullable. [C:\Users\Administrator\Documents\SimpleCrudApp\SimpleCrudApp.csproj]
C:\Users\Administrator\Documents\SimpleCrudApp\Data\ItemRepository.cs(24,40): warning CS8603: Possible null reference
return. [C:\Users\Administrator\Documents\SimpleCrudApp\SimpleCrudApp.csproj]
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5014
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\Users\Administrator\Documents\SimpleCrudApp
```

Visual Studio 2022

Adding two items->

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X POST http://localhost:5014/api/items       -H "Content-Type: application/json"       -d '{"name": "Item to stay", "description": "This item will remain."}'
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   134    0    69  100    65    747    703 --:--:-- --:--:-- --:--:--  1456{"id":1,"name":"Item to stay","description":"This item will remain."}

Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X POST http://localhost:5014/api/items       -H "Content-Type: application/json"       -d '{"name": "Item to update", "description": "This item will be updated"}'
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   144    0    74  100    70   9656   9134 --:--:-- --:--:-- --:--:-- 20571{"id":2,"name":"Item to update","description":"This item will be updated"}
```

GET result ->


```
1  [
2      {
3          "id": 1,
4          "name": "Item to stay",
5          "description": "This item will remain."
6      },
7      {
8          "id": 2,
9          "name": "Item to update",
10         "description": "This item will be updated"
11     }
12 ]
```

Edit an Item->

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X PUT http://localhost:5014/api/items/1     -H "Content-Type: application/json"     -d '{"id": 1, "name": "Updated Item", "description": "This item will be deleted"}'
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100    77    0     0  100    77      0   9132 --:--:-- --:--:-- --:--:--  9625
```
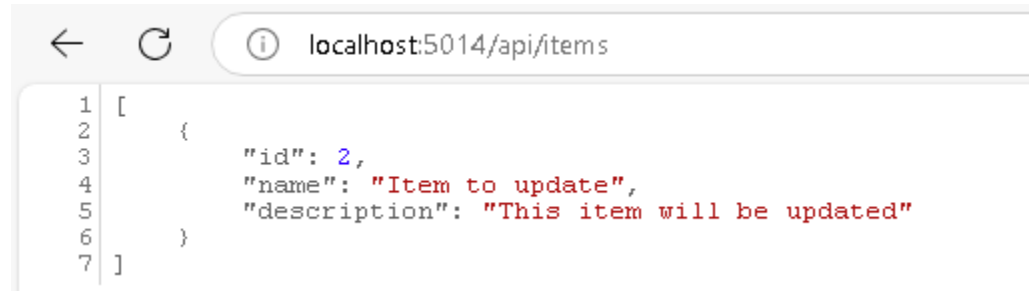
GET Result->


```
1  [
2      {
3          "id": 1,
4          "name": "Updated Item",
5          "description": "This item will be deleted"
6      },
7      {
8          "id": 2,
9          "name": "Item to update",
10         "description": "This item will be updated"
11     }
12 ]
```

DELETE an item ->

```
Administrator@DESKTOP-OCBEKCK MINGW64 ~
$ curl -X DELETE http://localhost:5014/api/items/1
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
```

GET Result->

localhost:5014/api/items

1 [
2   {
3   "id": 2,
4   "name": "Item to update",
5   "description": "This item will be updated"
6   }
7]