

Advance Python Programming

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Error while installing requirements:

```
PS C:\Users\nsush> python -m venv venv
Successfully installed annotated-doc-0.0.3 annotated-types-0.7.0 aiohttp-4.11.0 fastapi-0.121.0 h11-0.16.0 idna-3.11 mangum-0.19.0 pydantic-2.12.4
pydantic-core-2.41.5 sniffio-1.3.1 starlette-0.49.3 typing-extensions-4.15.0 typing-inspection-0.4.2 uvicorn-0.38.0
python : The term 'python' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the
name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ python -m venv venv
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (python:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\nsush> py -m venv venv
```

Recovered it with using py:

```
PS C:\Users\nsush> python -m venv venv
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\nsush> py -m venv venv
PS C:\Users\nsush> venv\Scripts\activate
(venv) PS C:\Users\nsush> Invoke-RestMethod -Uri "http://127.0.0.1:8080/discount&_vendor_info"
>> -Method POST
>> -Headers @{"Content-Type" = "application/json" }
>> -Body '["product_id": 1, "name": "Beige Living Room Sofa", "price": 499}'
Invoke-RestMethod : Unable to connect to the remote server
At line:1 char:1
+ Invoke-RestMethod -Uri "http://127.0.0.1:8080/discount&_vendor_info" ...
+ ~~~~~
+ CategoryInfo          : NotSpecified: () [Invoke-RestMethod], WebException
+ FullyQualifiedErrorId : System.Net.WebException,Microsoft.PowerShell.Commands.InvokeRestMethodCommand
```

Again error with unicorn:

```
(venv) PS C:\Users\nsush> uvicorn app:app --reload
unicorn : The term 'unicorn' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the
name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ unicorn app:app --reload
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (unicorn:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
```

Installed unicorn and fastapi:

```
(venv) PS C:\Users\nsush> py -m pip install unicorn
>>
Using cached unicorn-0.38.0-py3-none-any.whl.metadata (6.8 kB)
collecting click>=7.0 (from unicorn)
  Using cached click-8.3.0-py3-none-any.whl.metadata (2.6 kB)
collecting h11>=0.8 (from unicorn)
  Using cached h11-0.16.0-py3-none-any.whl.metadata (8.3 kB)
collecting colorama (from click>=7.0->unicorn)
  Using cached colorama-0.4.6-py2,py3-none-any.whl.metadata (17 kB)
Using cached unicorn-0.38.0-py3-none-any.whl (68 kB)
Using cached click-8.3.0-py3-none-any.whl (107 kB)
Using cached h11-0.16.0-py3-none-any.whl (37 kB)
Using cached colorama-0.4.6-py2,py3-none-any.whl (25 kB)
Installing collected packages: h11, colorama, click, unicorn
Successfully installed click-8.3.0 colorama-0.4.6 h11-0.16.0 unicorn-0.38.0

[notice] A new release of pip is available: 24.2 -> 25.3
[notice] To update, run: python.exe -m pip install --upgrade pip
(venv) PS C:\Users\nsush> py -m pip install fastapi
collecting fastapi
```

Ecommerce API:

A screenshot of a code editor interface. The left sidebar shows an 'EXPLORER' view with several projects and files, including 'Ecommerce_API.py', 'requirements.txt', and 'uvicorn'. The main area shows a terminal window with the following command and output:

```
(base) matlab@sjt318scope053:~/cloud_apis$ curl -X 'POST' \
  'http://127.0.0.1:8000/discount_vendor_info' \
  -H 'accept: application/json' \
  -d '{ "product_id": 1, "name": "Product Name", "price": 499 }'
{"message": "10% discount available from ElectroMart for Product Name."}(base) matlab@sjt318scope053:~/cloud_apis$
```

E-Commerce API 1.0 OAS 3.1

/openapi.json

default

The screenshot shows an API documentation interface for the 'discount_vendor_info' endpoint. It includes sections for 'Parameters' (No parameters), 'Responses' (Curl command, Request URL, Server response), and detailed 'Code' and 'Details' for a 500 error. The server response shows an internal server error with a JSON body indicating a processing failure.

POST /discount_vendor_info Add To Cart

Parameters

No parameters

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/discount_vendor_info' \
  -H 'accept: application/json' \
  -d ''
```

Request URL

```
http://127.0.0.1:8000/discount_vendor_info
```

Server response

Code	Details
500 Undocumented	Error: Internal Server Error Response body

```
{ "detail": "Processing failed: Expecting value: line 1 column 1 (char 0)"}
```

Response headers

```
access-control-allow-credentials: true
access-control-allow-origin: *
content-length: 73
```

← → ⌂ 127.0.0.1:8000/docs#/default/add_to_cart_discount_vendor_info_post

Execute Clear

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/discount_vendor_info' \
  -H 'Accept: application/json' \
  -d ''
```

Request URL

```
http://127.0.0.1:8000/discount_vendor_info
```

Server response

Code	Details	Links
500 <i>Undocumented</i>	Error: Internal Server Error Response body { "detail": "Processing failed: Expecting value: line 1 column 1 (char 0)" } Response headers access-control-allow-credentials: true access-control-allow-origin: * content-length: 73 content-type: application/json date: Fri, 07 Nov 2025 05:37:01 GMT server: unicorn	 Download

Responses

Code	Description	Links
200	Successful Response Media type application/json ▾ Contains Accept header. Example Value Schema "string"	No links