

JAMES MUTINDA KITHEKA

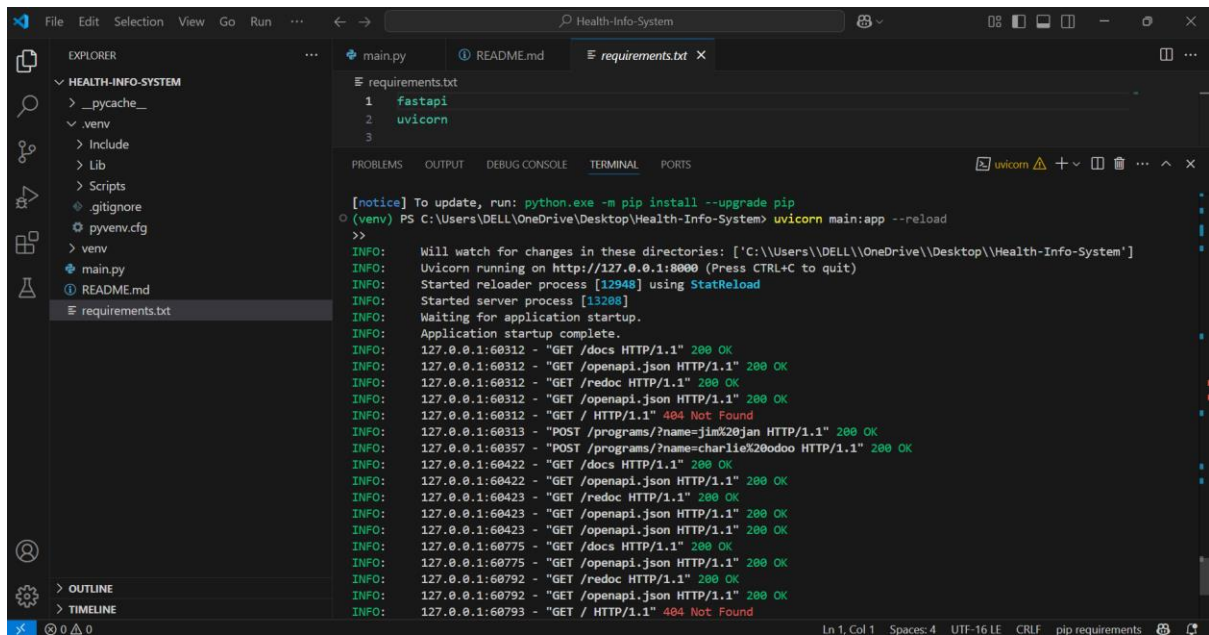
0112960532

SYSTEM PROTOTYPE

Overall display of the system:

PowerShell terminal after you run :

uvicorn main:app --reload



The screenshot shows a Visual Studio Code editor window with a file explorer on the left and a PowerShell terminal on the right. The file explorer shows a project named 'HEALTH-INFO-SYSTEM' with files like 'main.py', 'README.md', and 'requirements.txt'. The PowerShell terminal shows the command 'uvicorn main:app --reload' being executed. The output of the command is as follows:

```
[notice] To update, run: python.exe -m pip install --upgrade pip
(venv) PS C:\Users\DELL\OneDrive\Desktop\Health-Info-System> uvicorn main:app --reload
>>
INFO: Will watch for changes in these directories: ['C:\Users\DELL\OneDrive\Desktop\Health-Info-System']
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO: Started reloader process [12948] using StatReload
INFO: Started server process [13208]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: 127.0.0.1:60312 - "GET /docs HTTP/1.1" 200 OK
INFO: 127.0.0.1:60312 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60312 - "GET /redoc HTTP/1.1" 200 OK
INFO: 127.0.0.1:60312 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60312 - "GET / HTTP/1.1" 404 Not Found
INFO: 127.0.0.1:60313 - "POST /programs/?name=jimk20jan HTTP/1.1" 200 OK
INFO: 127.0.0.1:60357 - "POST /programs/?name=charlie%20doo HTTP/1.1" 200 OK
INFO: 127.0.0.1:60422 - "GET /docs HTTP/1.1" 200 OK
INFO: 127.0.0.1:60422 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60423 - "GET /redoc HTTP/1.1" 200 OK
INFO: 127.0.0.1:60423 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60423 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60775 - "GET /docs HTTP/1.1" 200 OK
INFO: 127.0.0.1:60775 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60792 - "GET /redoc HTTP/1.1" 200 OK
INFO: 127.0.0.1:60792 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60793 - "GET / HTTP/1.1" 404 Not Found
```

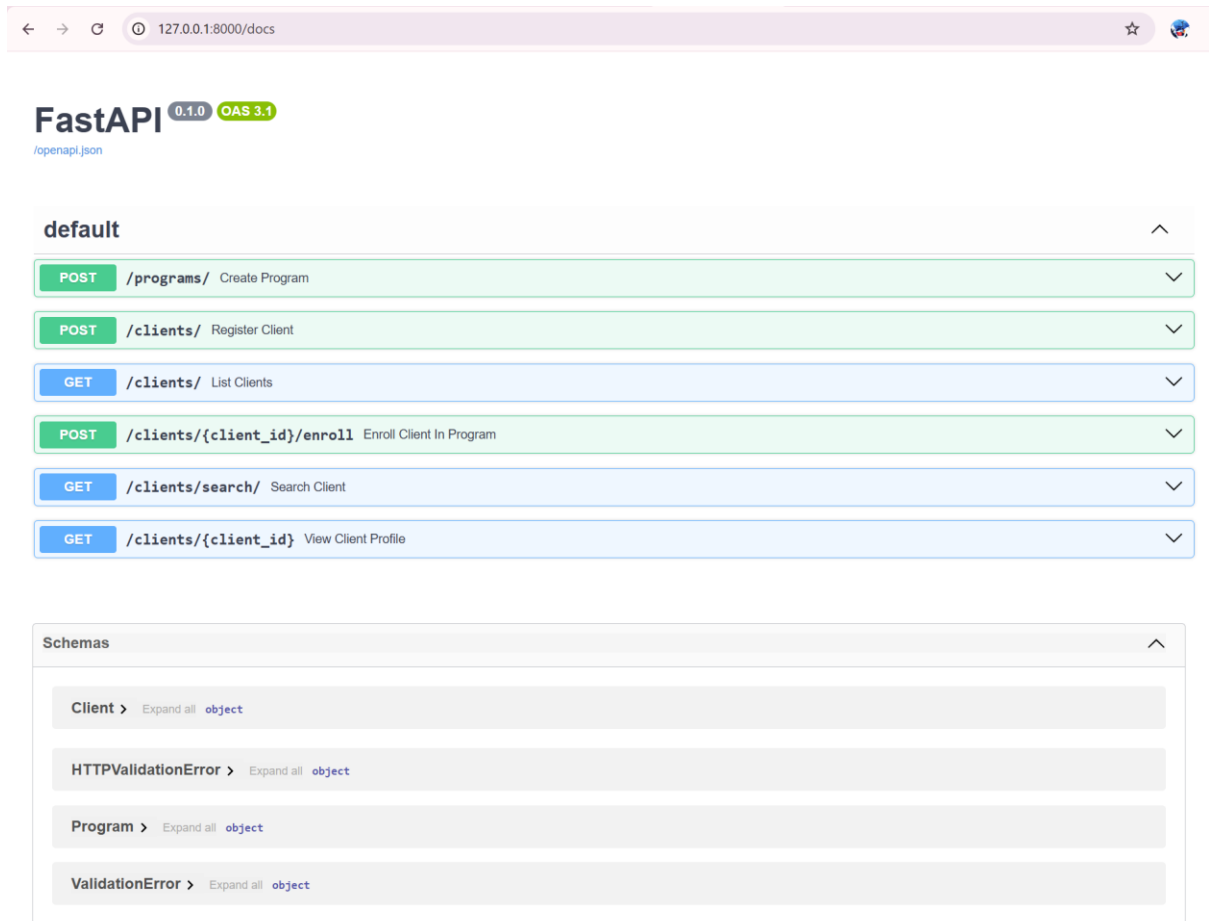
The slide below shows the overview of API URL input as:

<http://127.0.0.1:8000/>



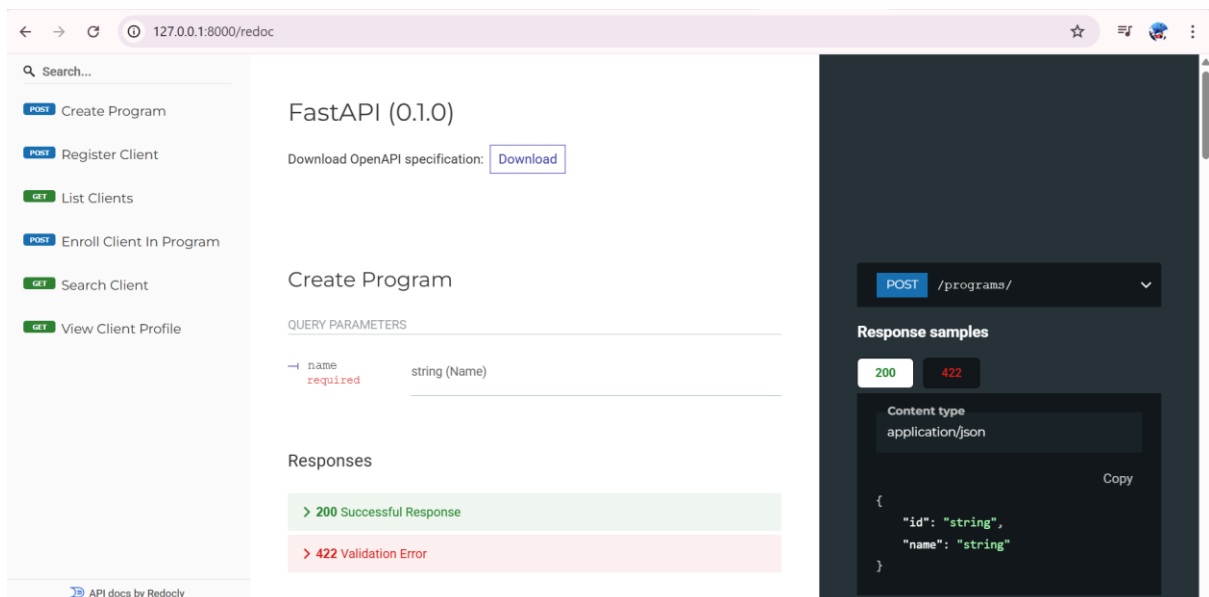
The slide below shows the overview of API URL input as:

<http://127.0.0.1:8000/docs>



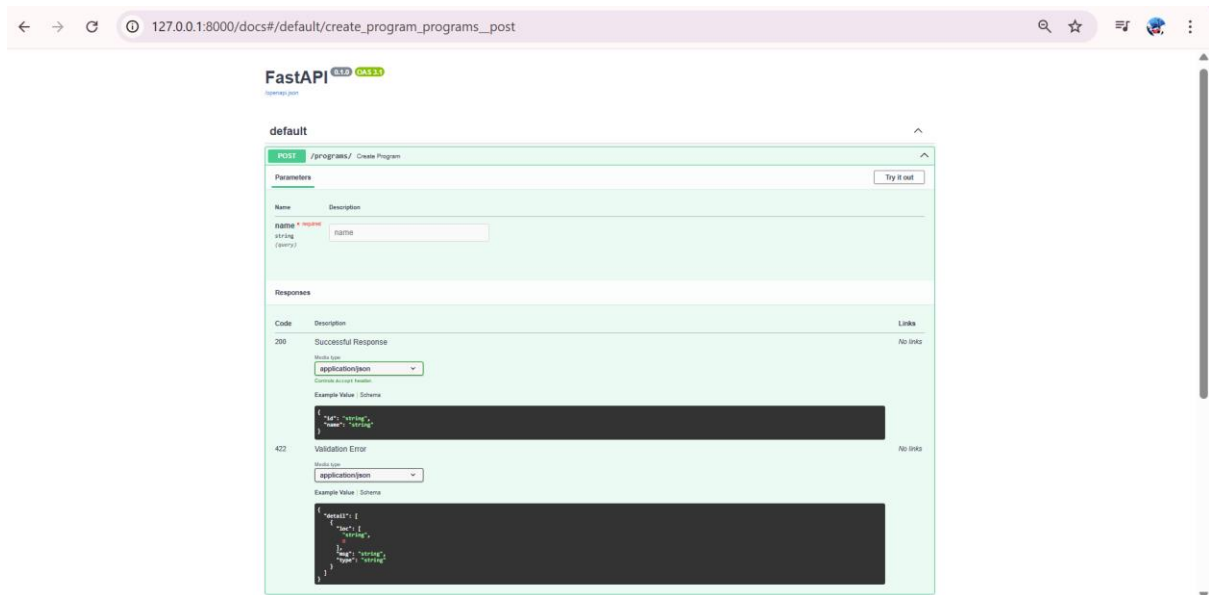
The slide below shows the overview of API URL input as:

<http://127.0.0.1:8000/redoc>

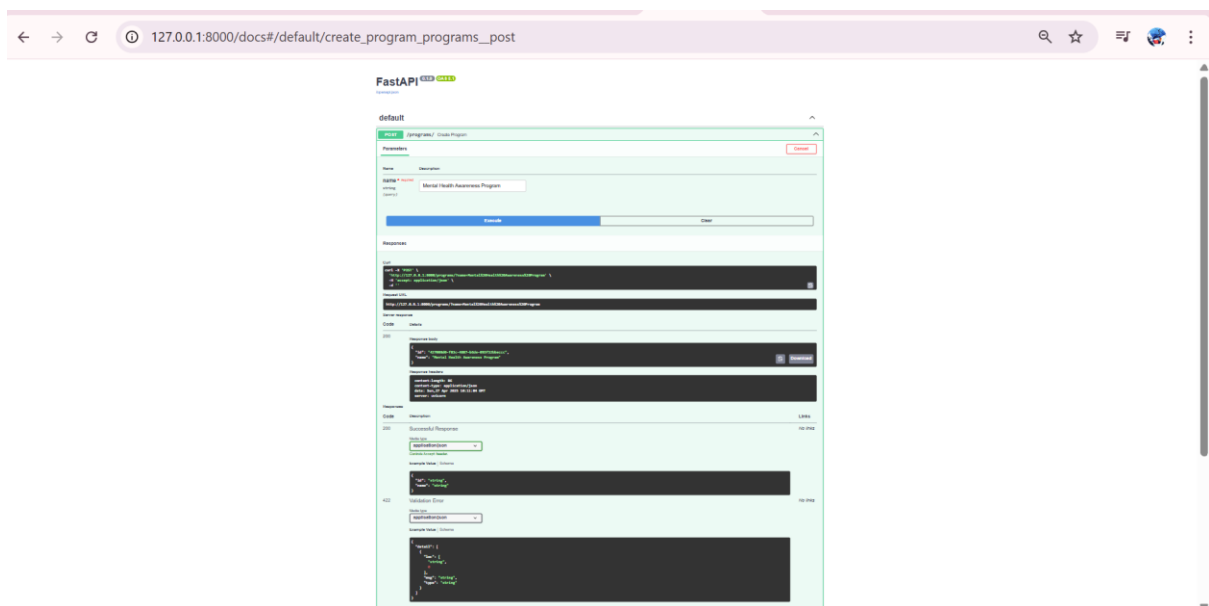


Create program

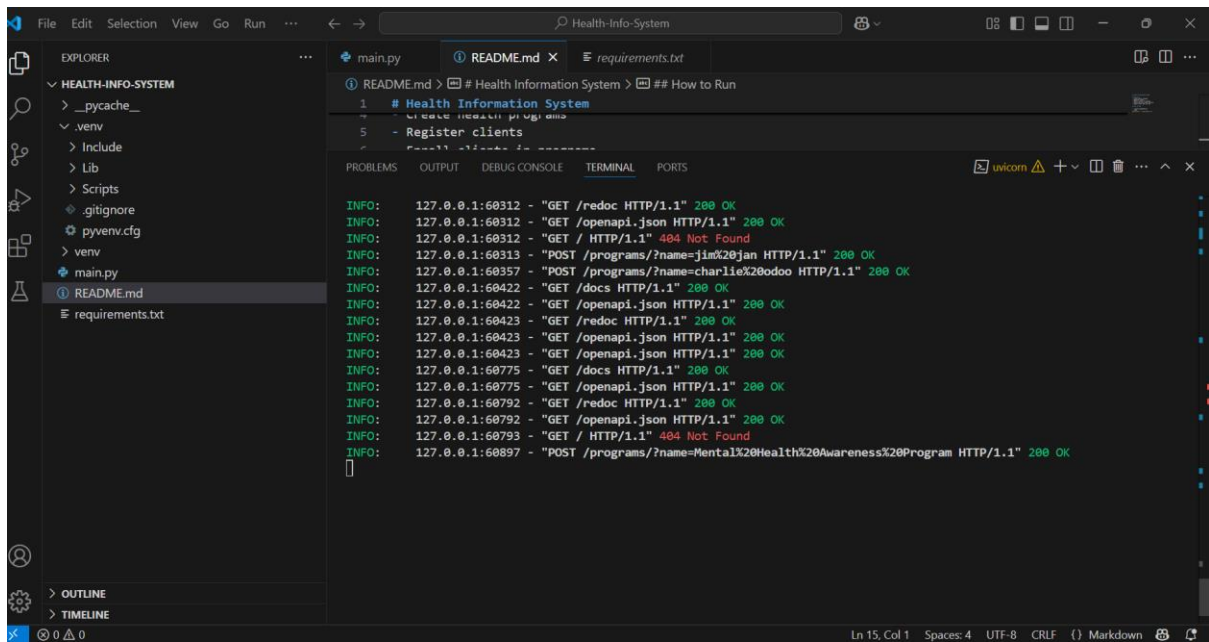
Before trying it out:



After input:

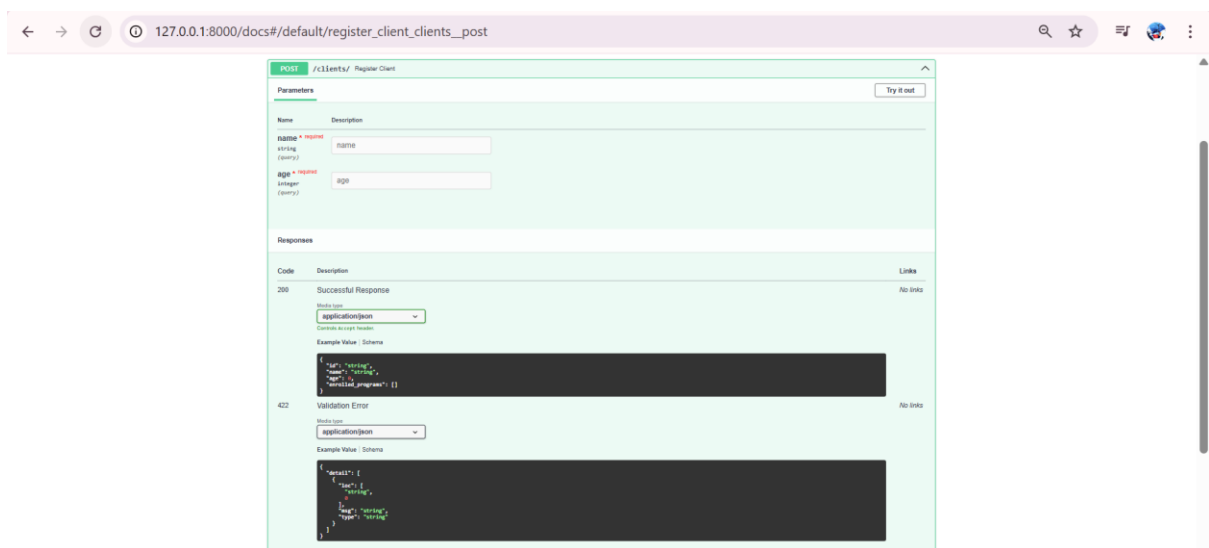


How PowerShell terminal appears:

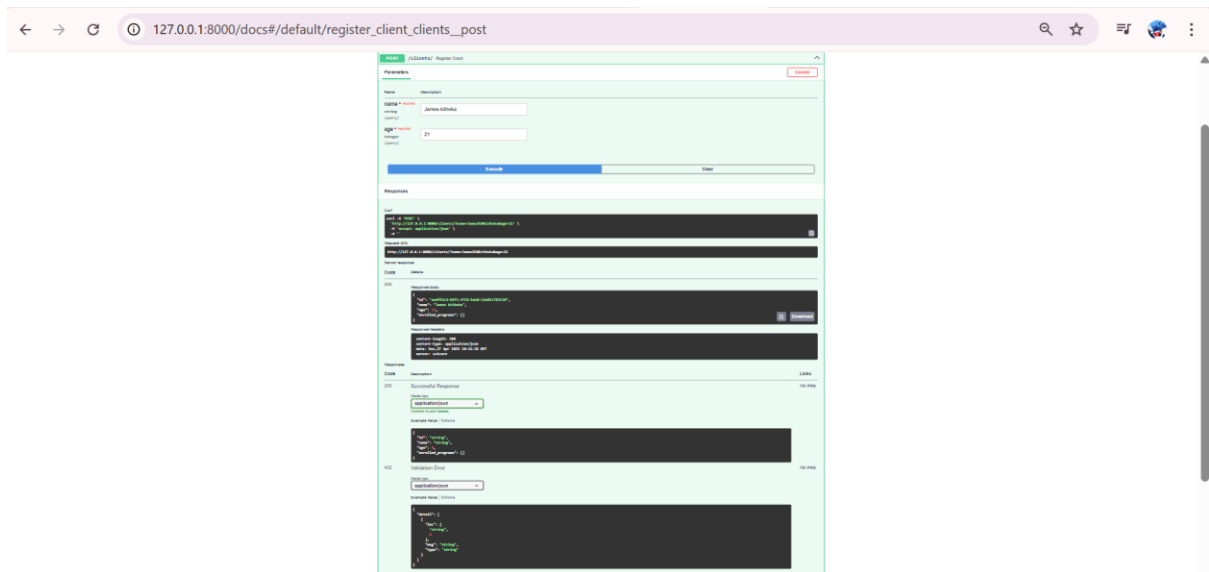


Register client:

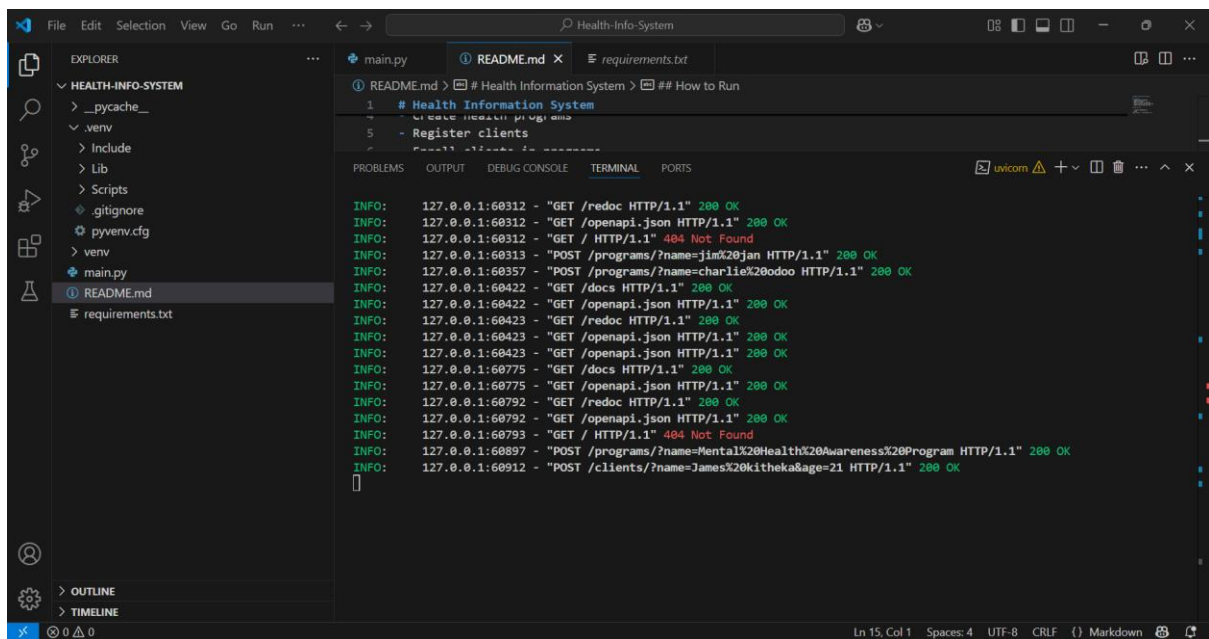
Before trying it out:



After:

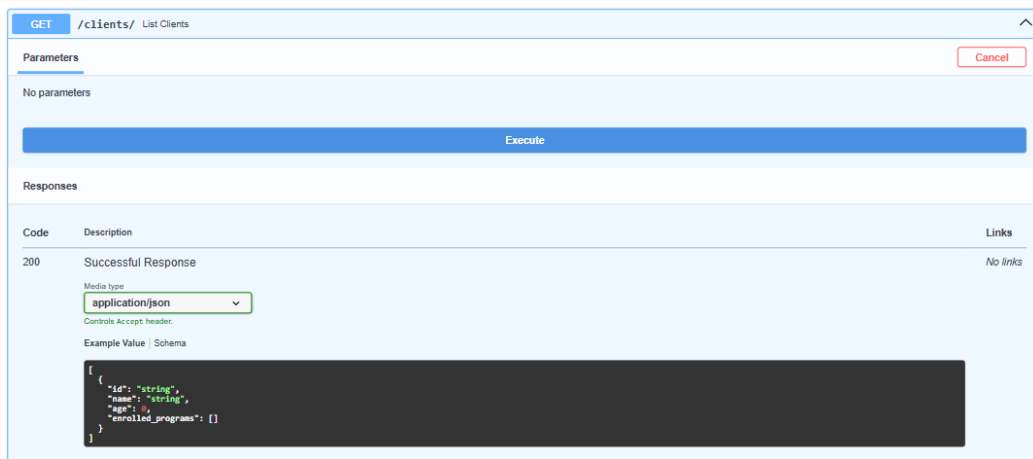


How PowerShell appears:

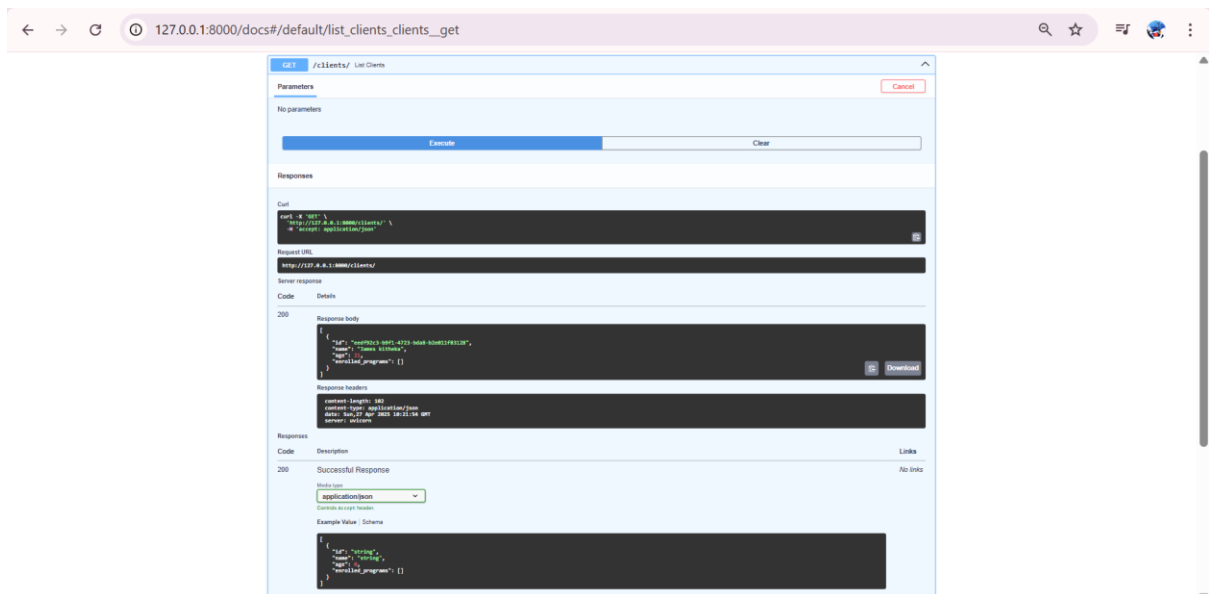


List clients

Before trying it out:



After:



How PowerShell appears:

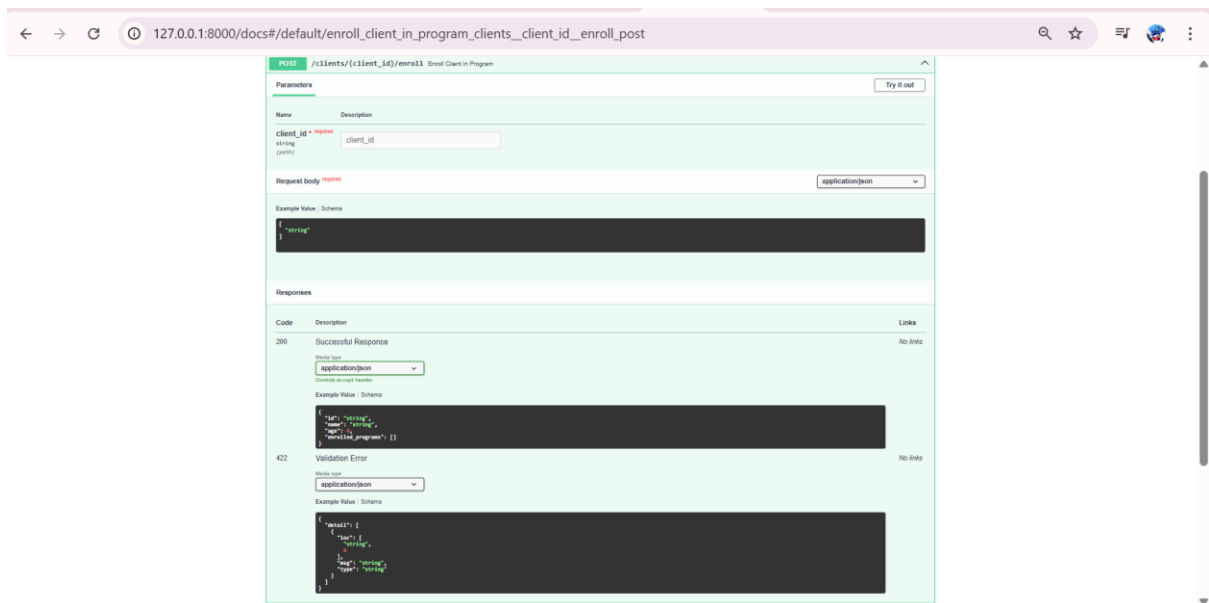
The screenshot shows a VS Code editor with a project named 'Health-Info-System'. The Explorer sidebar on the left shows the project structure, including files like 'main.py', 'README.md', and 'requirements.txt'. The main editor area displays a REST client file named 'enroll\_client\_in\_program\_clients\_client\_id\_enroll\_post'. The file contains a POST request to '/clients/{client\_id}/enroll' with a request body of 'spring'. The terminal at the bottom shows the output of the request, which is a 200 OK response.

```
1 # Health Information System
2 # Create health programs
3 # Register clients
4 # Enroll clients
5 # Enroll clients in a program
```

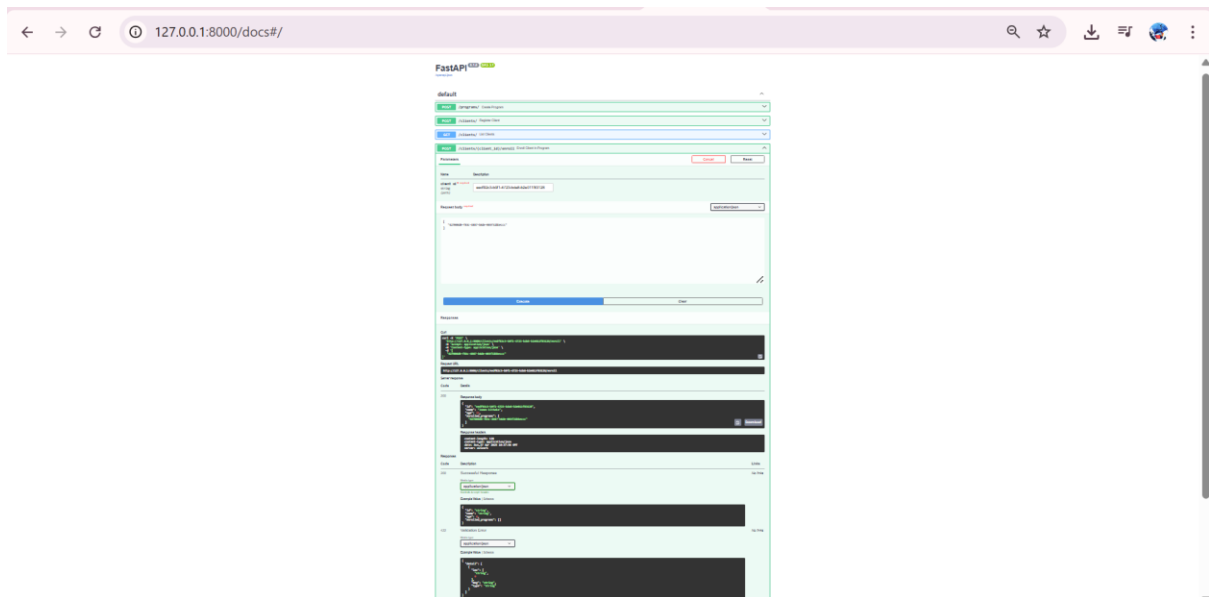
```
INFO: 127.0.0.1:60312 - "GET /redoc HTTP/1.1" 200 OK
INFO: 127.0.0.1:60312 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60312 - "GET / HTTP/1.1" 404 Not Found
INFO: 127.0.0.1:60313 - "POST /programs/?name=jimk20jan HTTP/1.1" 200 OK
INFO: 127.0.0.1:60357 - "POST /programs/?name=charlie%20odoo HTTP/1.1" 200 OK
INFO: 127.0.0.1:60422 - "GET /docs HTTP/1.1" 200 OK
INFO: 127.0.0.1:60422 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60423 - "GET /redoc HTTP/1.1" 200 OK
INFO: 127.0.0.1:60423 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60423 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60775 - "GET /docs HTTP/1.1" 200 OK
INFO: 127.0.0.1:60775 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60792 - "GET /redoc HTTP/1.1" 200 OK
INFO: 127.0.0.1:60792 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:60793 - "GET / HTTP/1.1" 404 Not Found
INFO: 127.0.0.1:60897 - "POST /programs/?name=Mental1x20Healthx20Awarenessx20Program HTTP/1.1" 200 OK
INFO: 127.0.0.1:60912 - "POST /clients/?name=Jamesx20kitheka&age=21 HTTP/1.1" 200 OK
INFO: 127.0.0.1:60924 - "GET /clients/ HTTP/1.1" 200 OK
INFO: 127.0.0.1:60931 - "GET /clients/ HTTP/1.1" 200 OK
```

Enroll clients in a project:

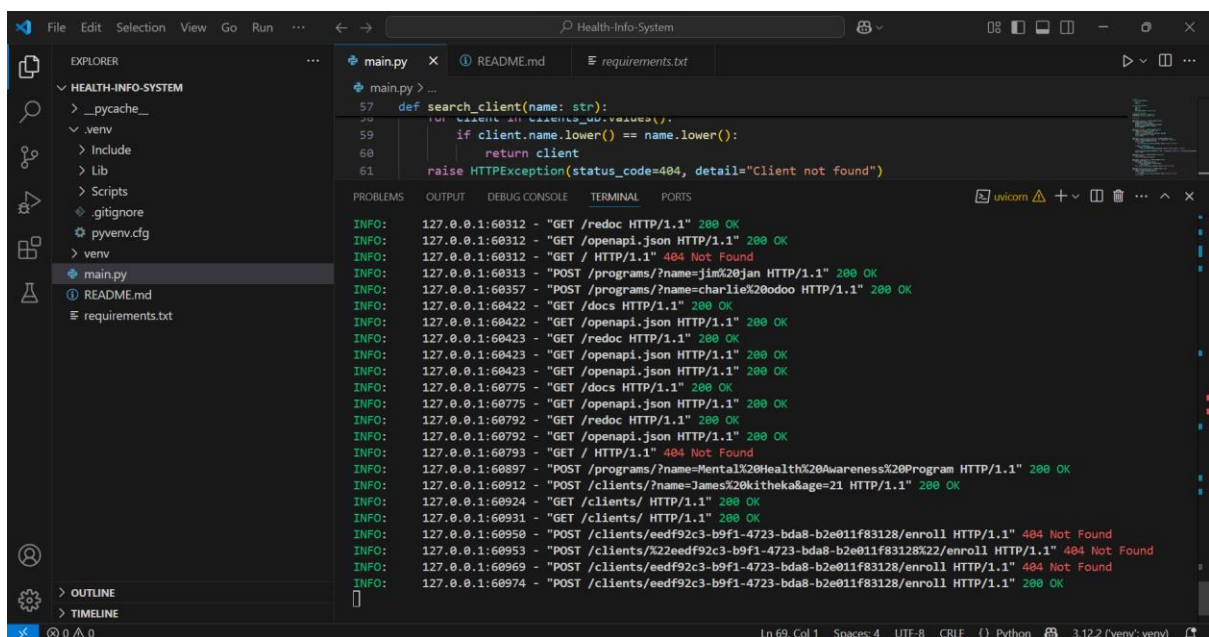
Before trying it out:



After:



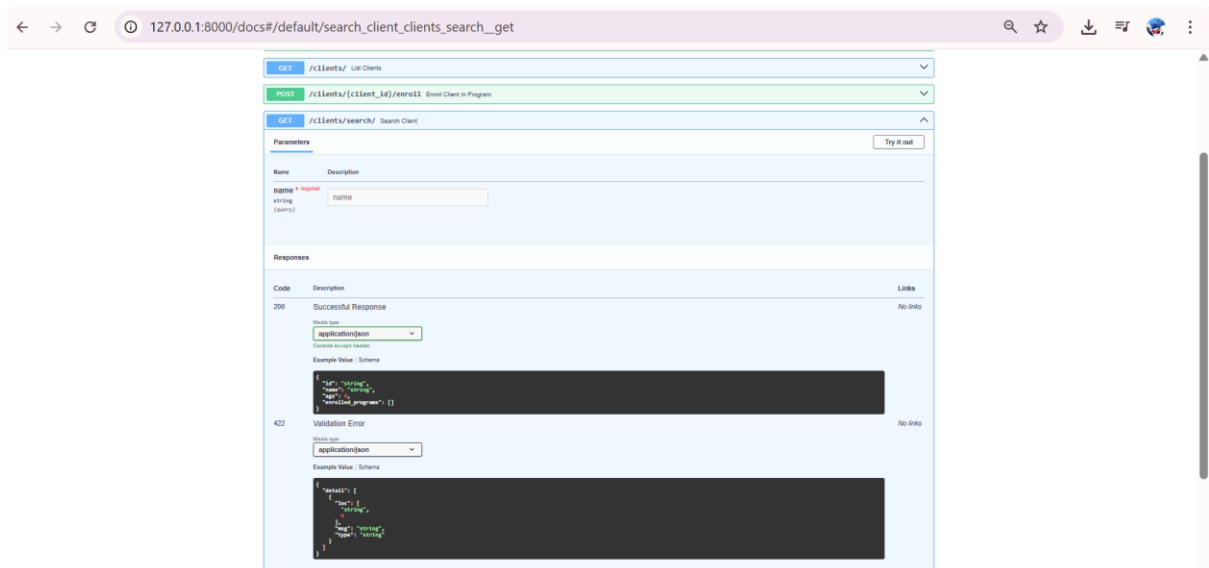
How PowerShell appears:



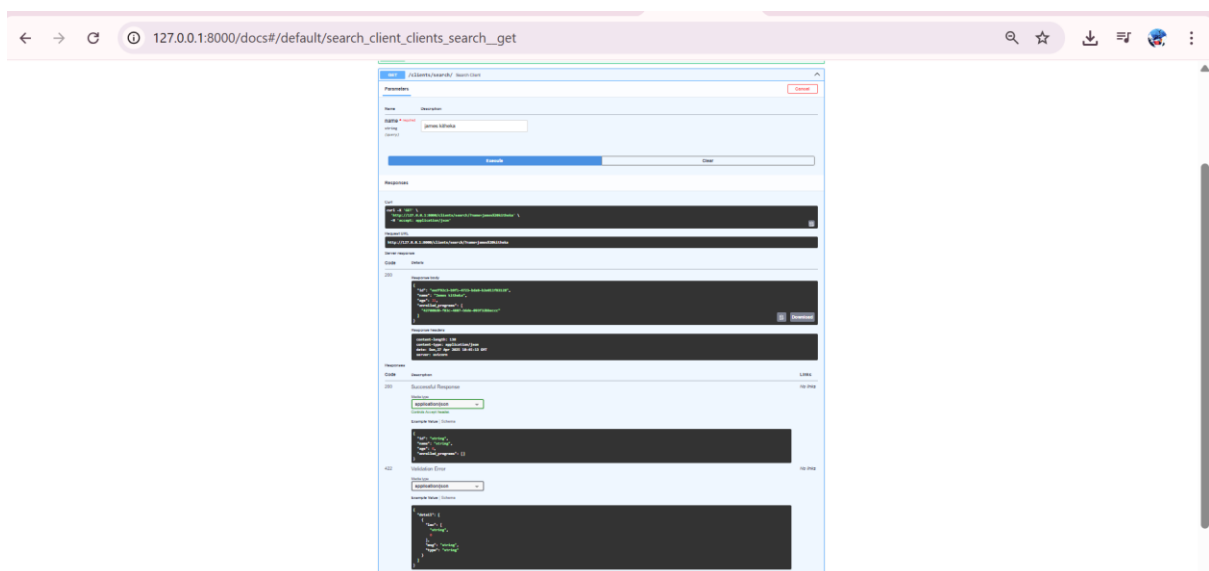
Search Client:

Before trying it out:

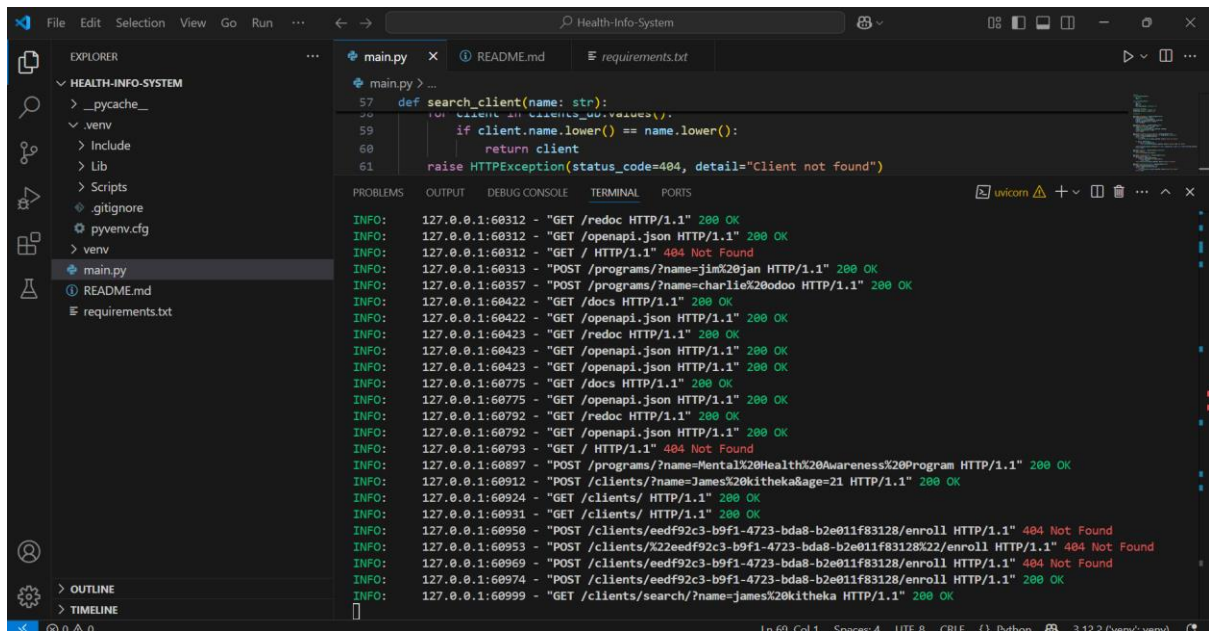




After:

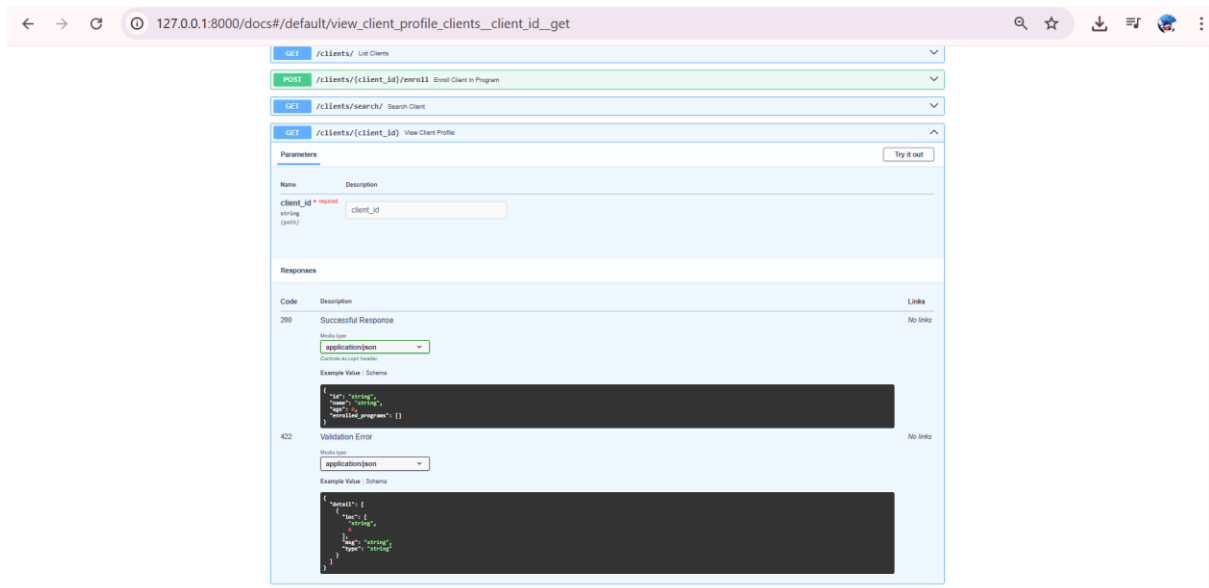


How PowerShell appears:

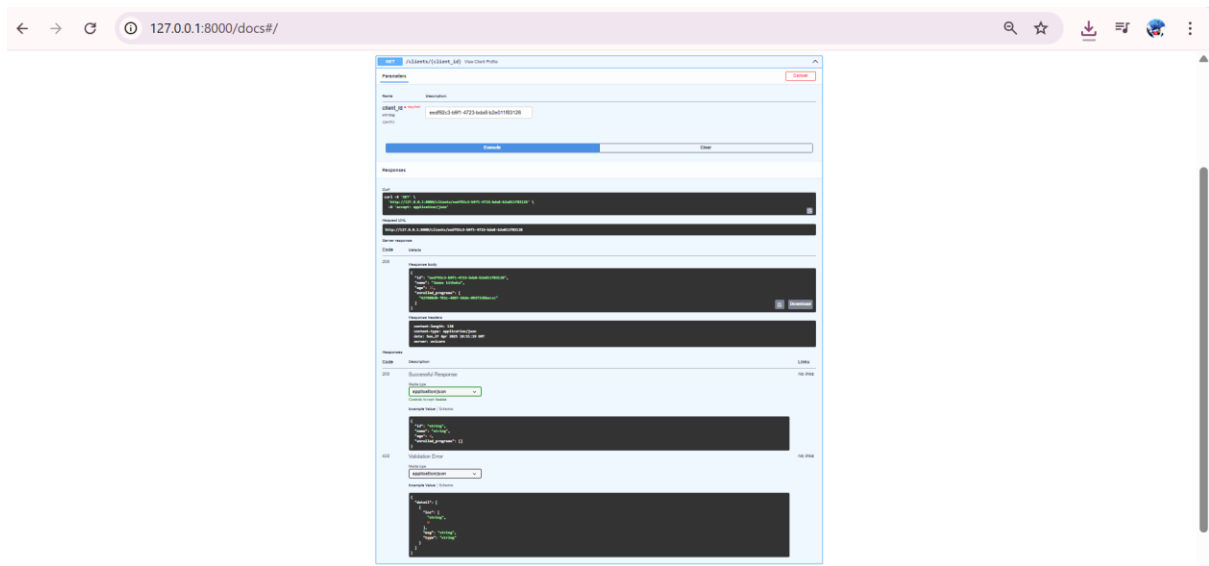


View client's profile:

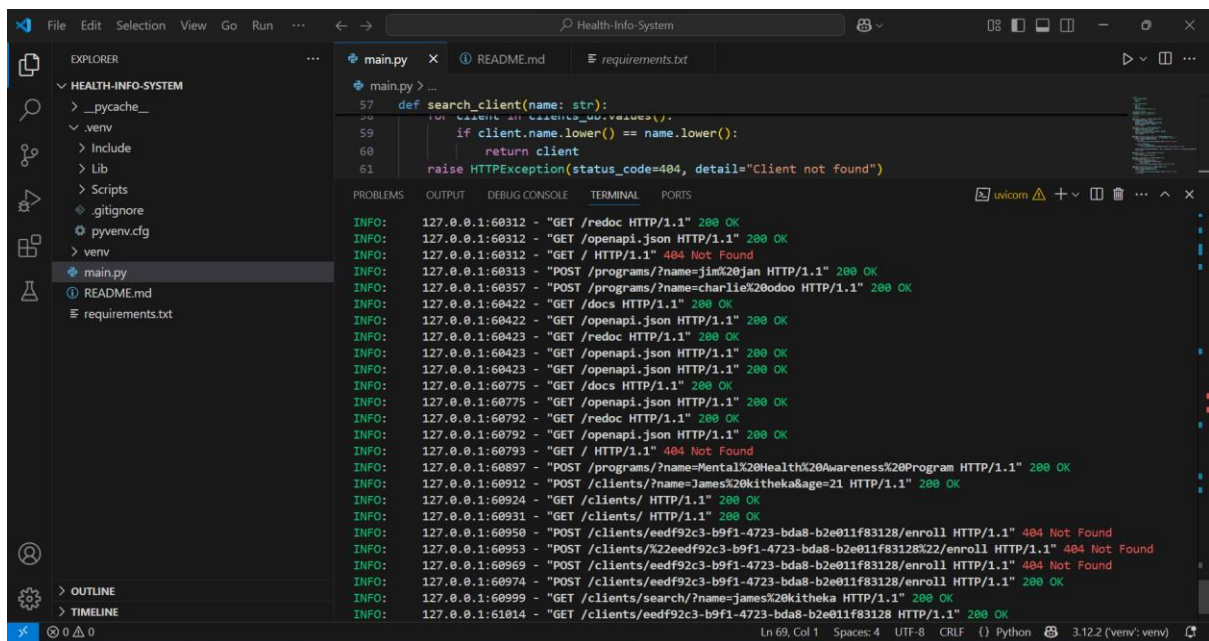
Before trying it out:



After:



How PowerShell appears:



Display of the schemas:

```
{
  "msg": "string",
  "type": "string"
}
```

Schemas

**Client** ⌵ Collapse all object

- id<sup>id</sup> string
- name<sup>name</sup> string
- age<sup>age</sup> integer
- enrolled\_programs ⌵ Collapse all array of strings
  - items string
  - Default empty array

**HTTPValidationError** ⌵ Collapse all object

errors ⌵ Collapse all array of objects

Items ⌵ Collapse all object

- loc<sup>loc</sup> ⌵ Collapse all array of (string | integer)
  - Items ⌵ Collapse all (string | integer)
    - Any of ⌵ Collapse all (string | integer)
      - msg string
      - path integer
- msg<sup>msg</sup> string
- type<sup>type</sup> string

**Program** ⌵ Collapse all object

- id<sup>id</sup> string
- name<sup>name</sup> string

**ValidationError** ⌵ Collapse all object

loc<sup>loc</sup> ⌵ Collapse all array of (string | integer)

Items ⌵ Collapse all (string | integer)

Any of ⌵ Collapse all (string | integer)

- msg string
- path integer

msg<sup>msg</sup> string

type<sup>type</sup> string