

# Application using FastAPI & Streamlit with Docker



Streamlit



docker

Submitted by: TAJ AHMED (PDG DS&AI BV)

File

Edit

Selection

View

Go

Run

...

Project 2

EXPLORER

...

OPEN EDITORS

PROJECT 2

venv

OUTLINE

TIMELINE

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

pip

+

...

```
PS D:\Machine Learning\Project 2> virtualenv venv
>>
created virtual environment CPython3.12.3.final.0-64 in 4906ms
creator CPython3Windows(dest=D:\Machine Learning\Project 2\venv, clear=False, no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pip=bundle, via=copy, app_data_dir=C:\Users\HP\AppData\Local\pypa\virtualenv)
added seed packages: pip==24.0
activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
PS D:\Machine Learning\Project 2> .\venv\Scripts\Activate
>> pip install fastapi
>> nv) PS D:\Machine Learning\Project 2>
Collecting fastapi
  Using cached fastapi-0.111.0-py3-none-any.whl.metadata (25 kB)
Collecting starlette<0.38.0,>=0.37.2 (from fastapi)
  Using cached starlette-0.37.2-py3-none-any.whl.metadata (5.9 kB)
Collecting pydantic!=1.8,!1.8.1,!2.0.0,!2.0.1,!2.1.0,<3.0.0,>=1.7.4 (from fastapi)
  Using cached pydantic-2.7.2-py3-none-any.whl.metadata (108 kB)
Collecting typing-extensions>=4.8.0 (from fastapi)
  Using cached typing_extensions-4.12.0-py3-none-any.whl.metadata (3.0 kB)
Collecting fastapi-cli>=0.0.2 (from fastapi)
  Using cached fastapi_cli-0.0.4-py3-none-any.whl.metadata (7.0 kB)
Collecting httpx>=0.23.0 (from fastapi)
  Using cached httpx-0.27.0-py3-none-any.whl.metadata (7.2 kB)
Collecting jinja2>=2.11.2 (from fastapi)
  Using cached jinja2-3.1.4-py3-none-any.whl.metadata (2.6 kB)
Collecting python-multipart>=0.0.7 (from fastapi)
  Using cached python_multipart-0.0.9-py3-none-any.whl.metadata (2.5 kB)
Collecting ujson!=4.0.2,!4.1.0,!4.2.0,!4.3.0,!5.0.0,!5.1.0,>=4.0.1 (from fastapi)
  Using cached ujson-5.10.0-cp312-cp312-win_amd64.whl.metadata (9.5 kB)
Collecting orjson>=3.2.1 (from fastapi)
  Using cached orjson-3.10.3-cp312-none-win_amd64.whl.metadata (50 kB)
Collecting email_validator>=2.0.0 (from fastapi)
  Using cached email_validator-2.1.1-py3-none-any.whl.metadata (26 kB)
Collecting uvicorn>=0.12.0 (from uvicorn[standard]>=0.12.0->fastapi)
  Using cached uvicorn-0.30.0-py3-none-any.whl.metadata (6.3 kB)
Collecting dnspython>=2.0.0 (from email_validator>=2.0.0->fastapi)
  Using cached dnspython-2.6.1-py3-none-any.whl.metadata (5.8 kB)
```



EXPLORER ...

OPEN EDITORS

- main.py

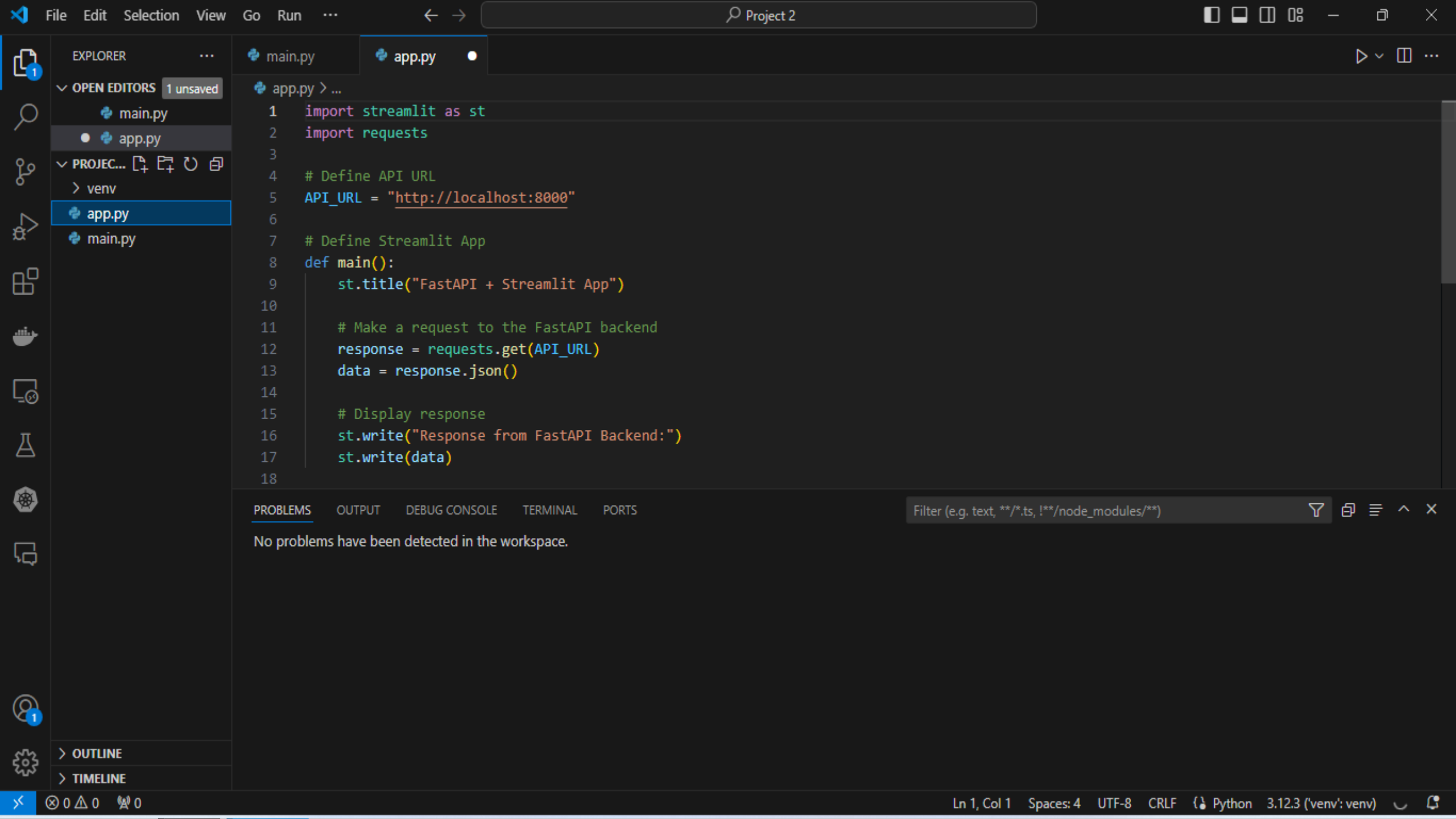
PROJECT 2

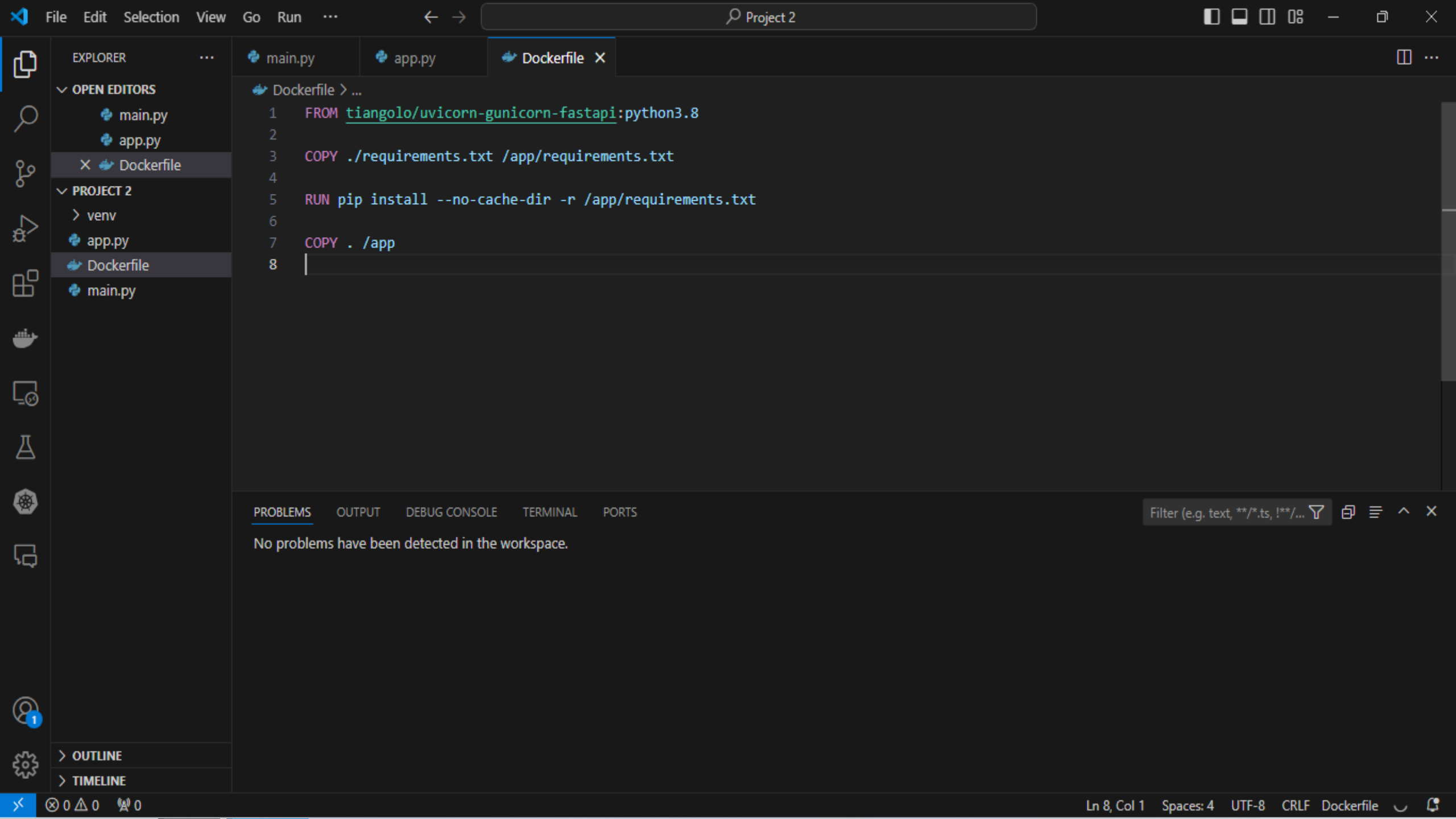
- venv
- main.py

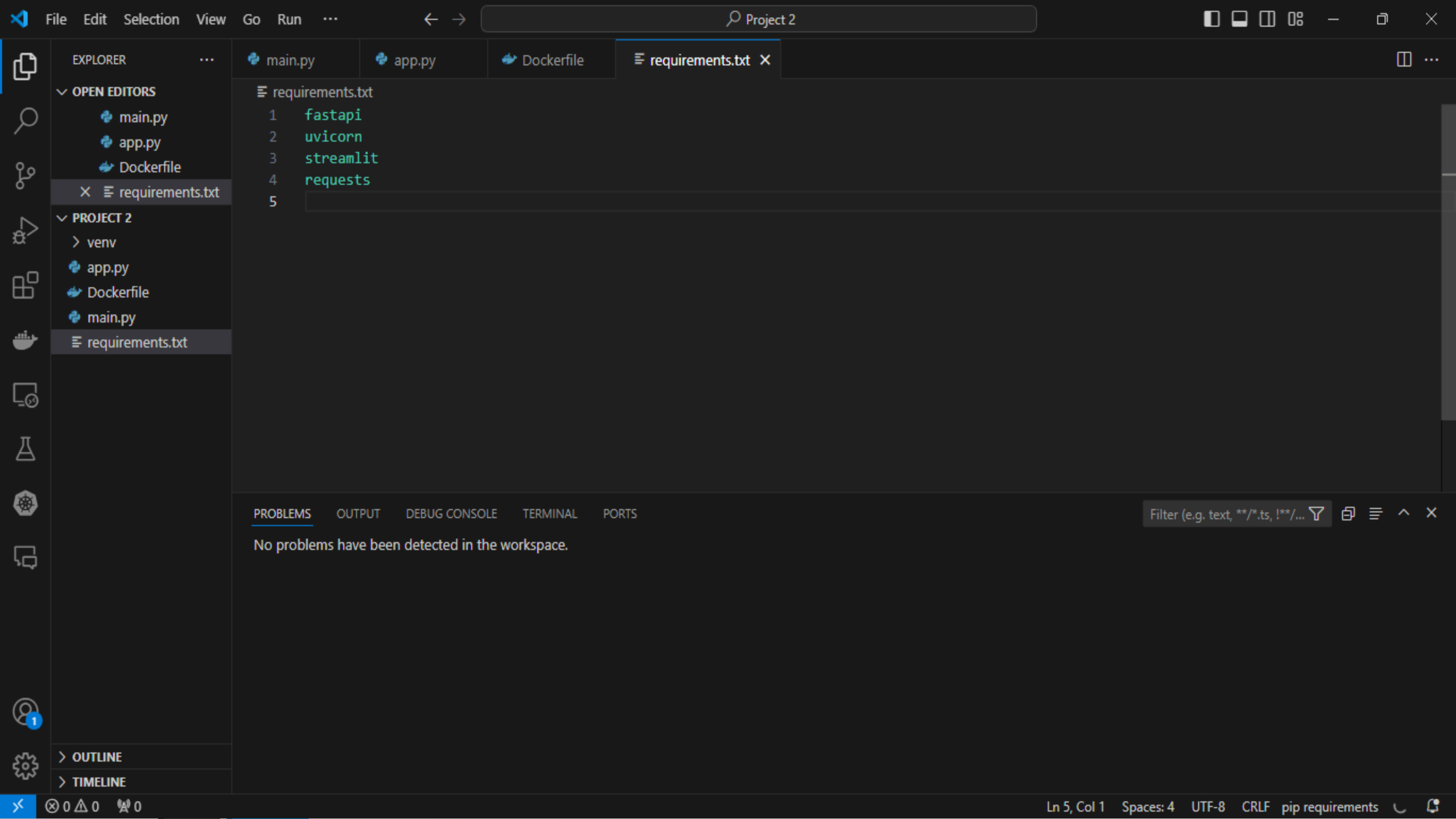
OUTLINE

TIMELINE

```
main.py x
main.py > ...
1
2 from fastapi import FastAPI
3
4 app = FastAPI()
5
6 app.get("/")
7 def read_root():
8     return {"Designed by": "TAJ AHMED - PGD DS & AI"}
9
```







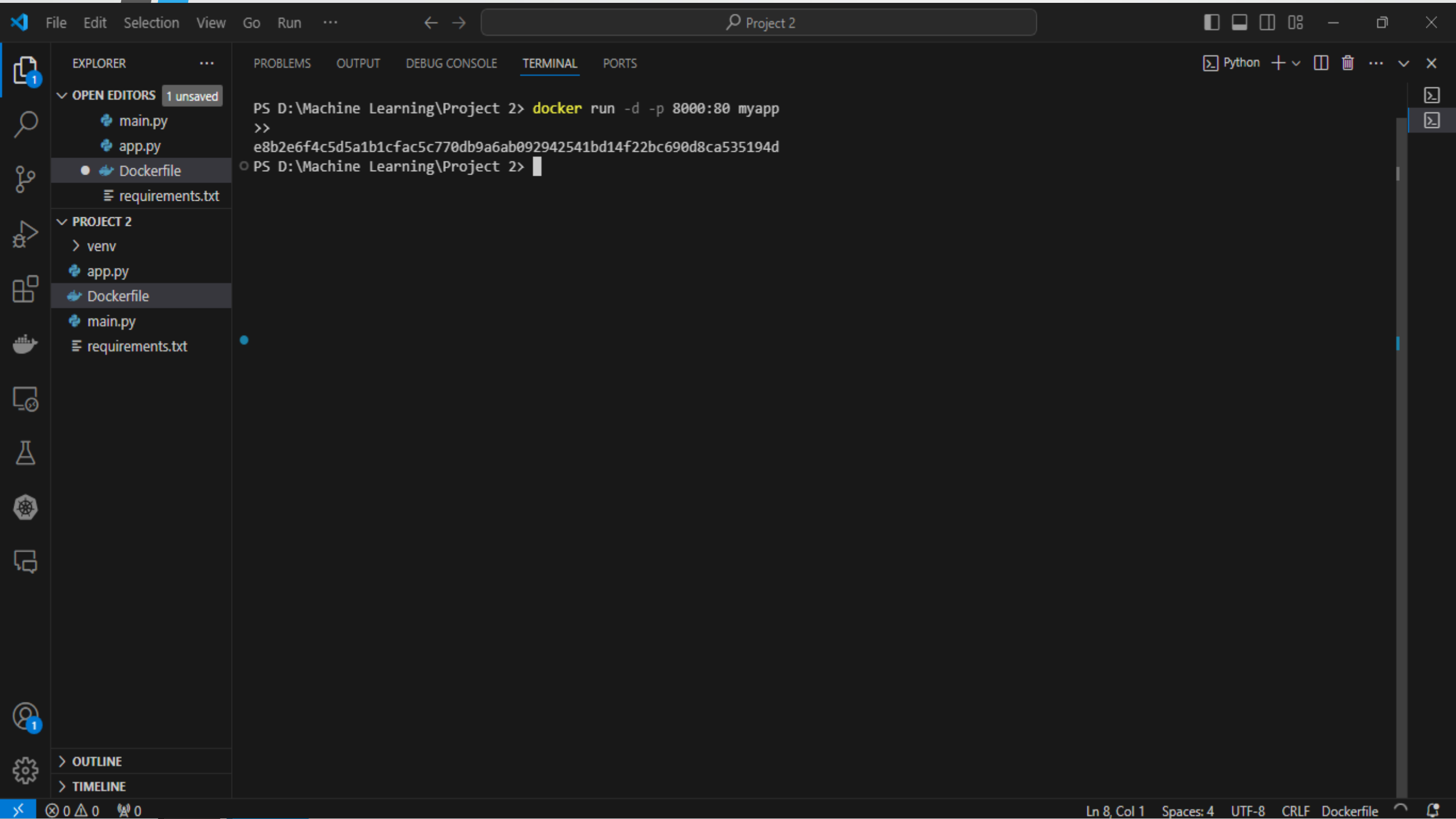
PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

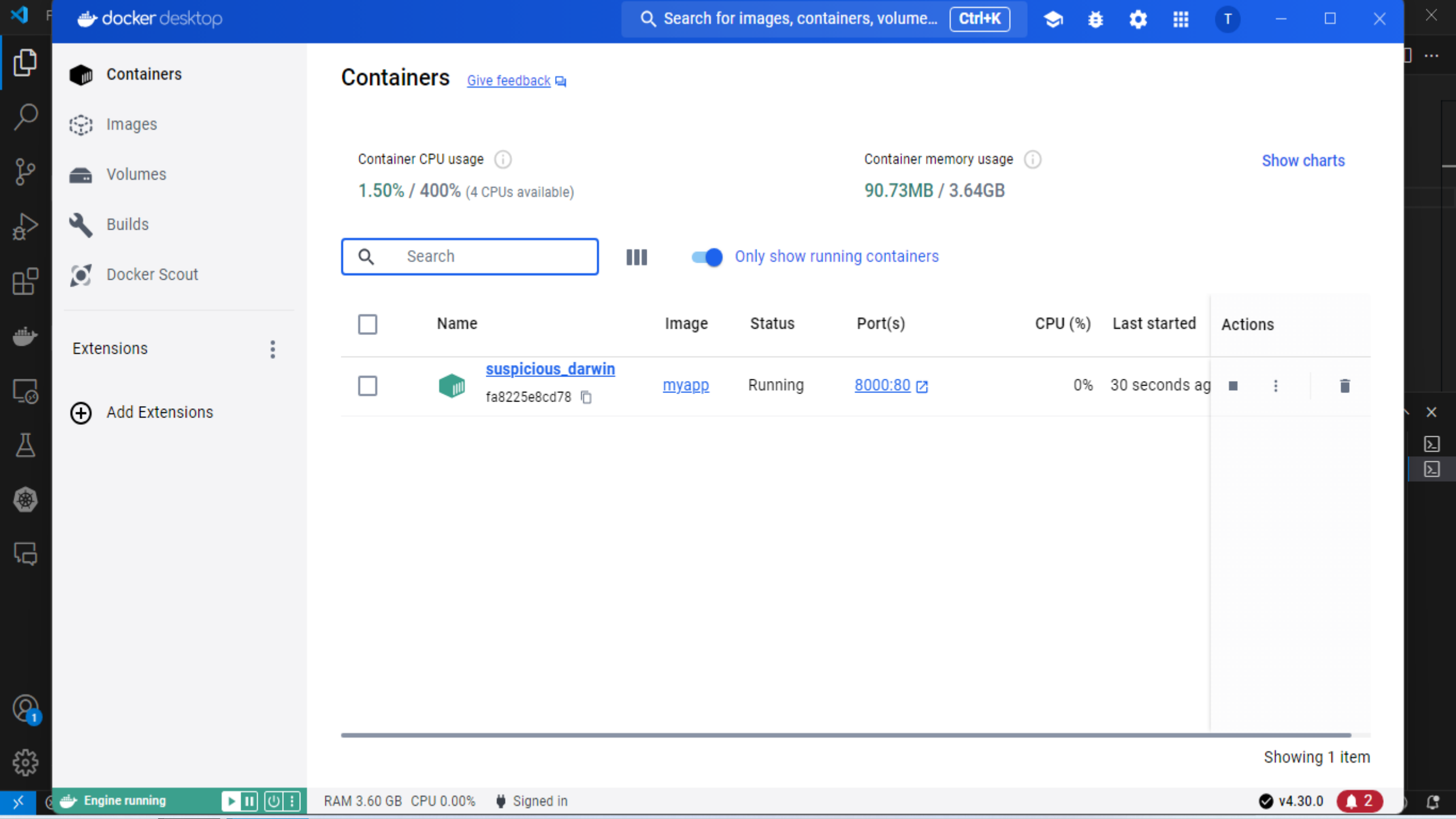
## What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview](#)

```
PS D:\Machine Learning\Project 2>
```







Containers

Images

Volumes

Builds

Docker Scout

Extensions

Add Extensions

# Containers

[Give feedback](#)

Container CPU usage  
1.50% / 400% (4 CPUs available)

Container memory usage  
90.73MB / 3.64GB

[Show charts](#)

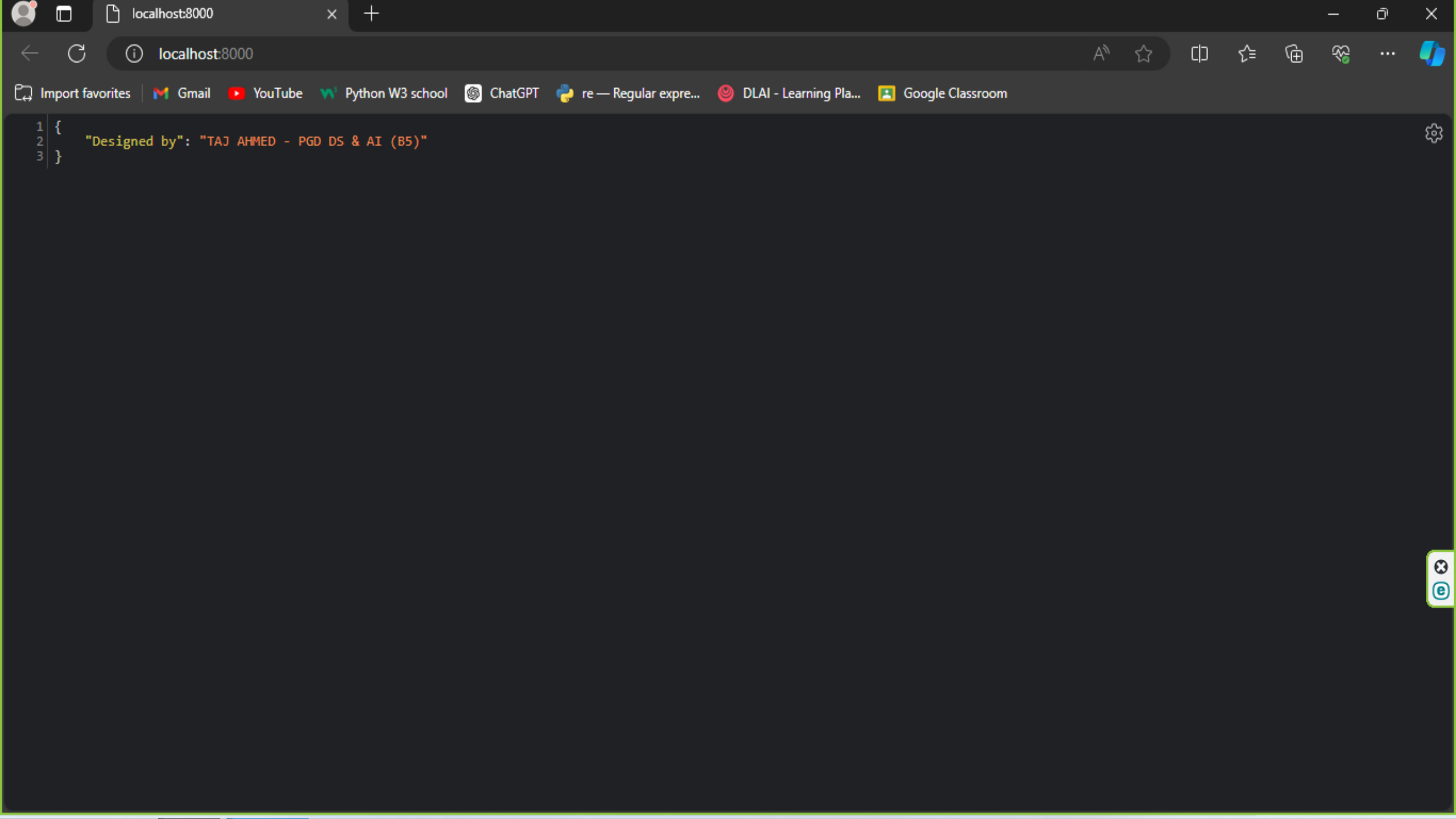
Search

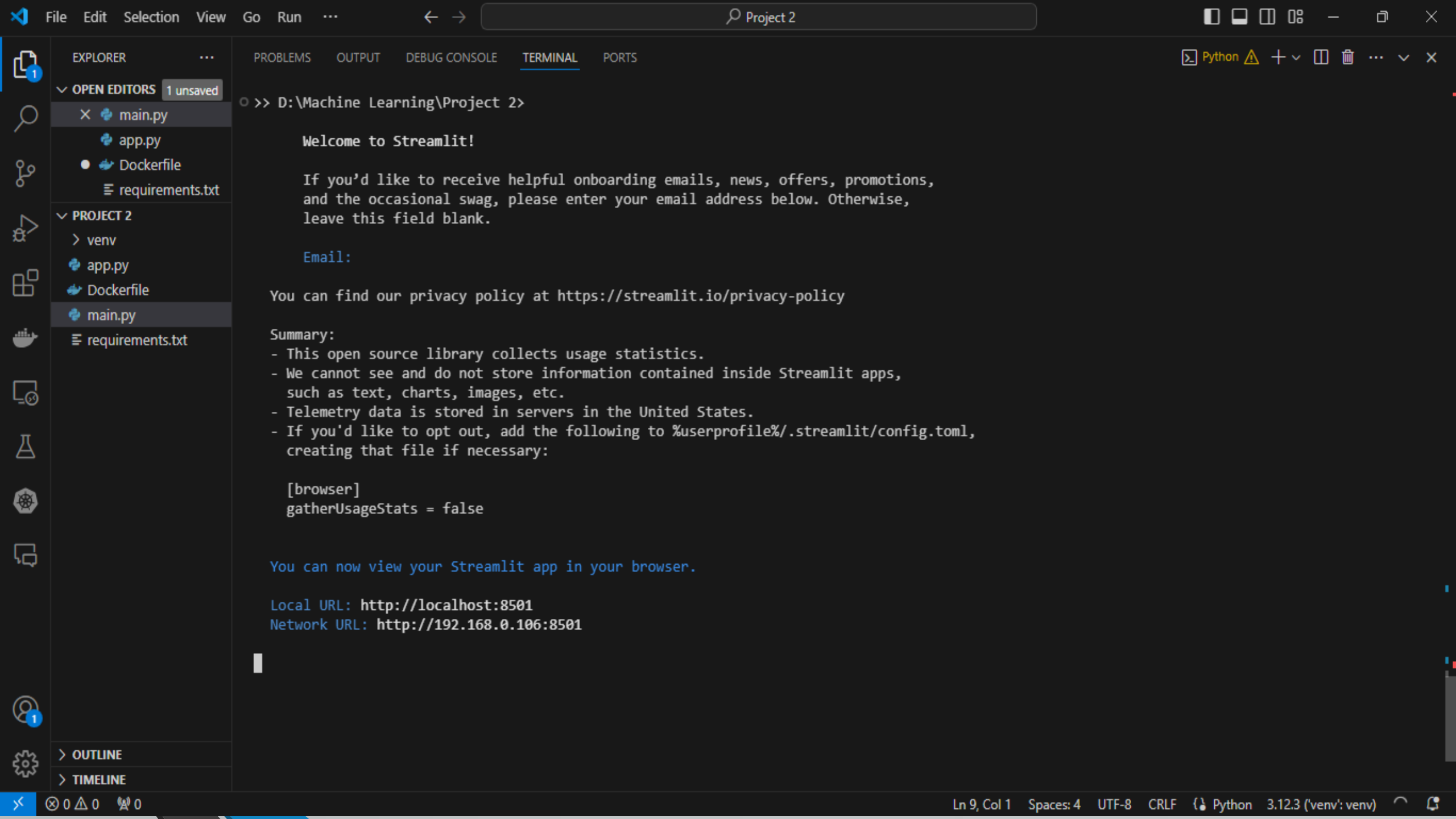


Only show running containers

<input type="checkbox"/>	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<a href="#">suspicious_darwin</a> fa8225e8cd78	<a href="#">myapp</a>	Running	<a href="#">8000:80</a>	0%	30 seconds ago	

Showing 1 item



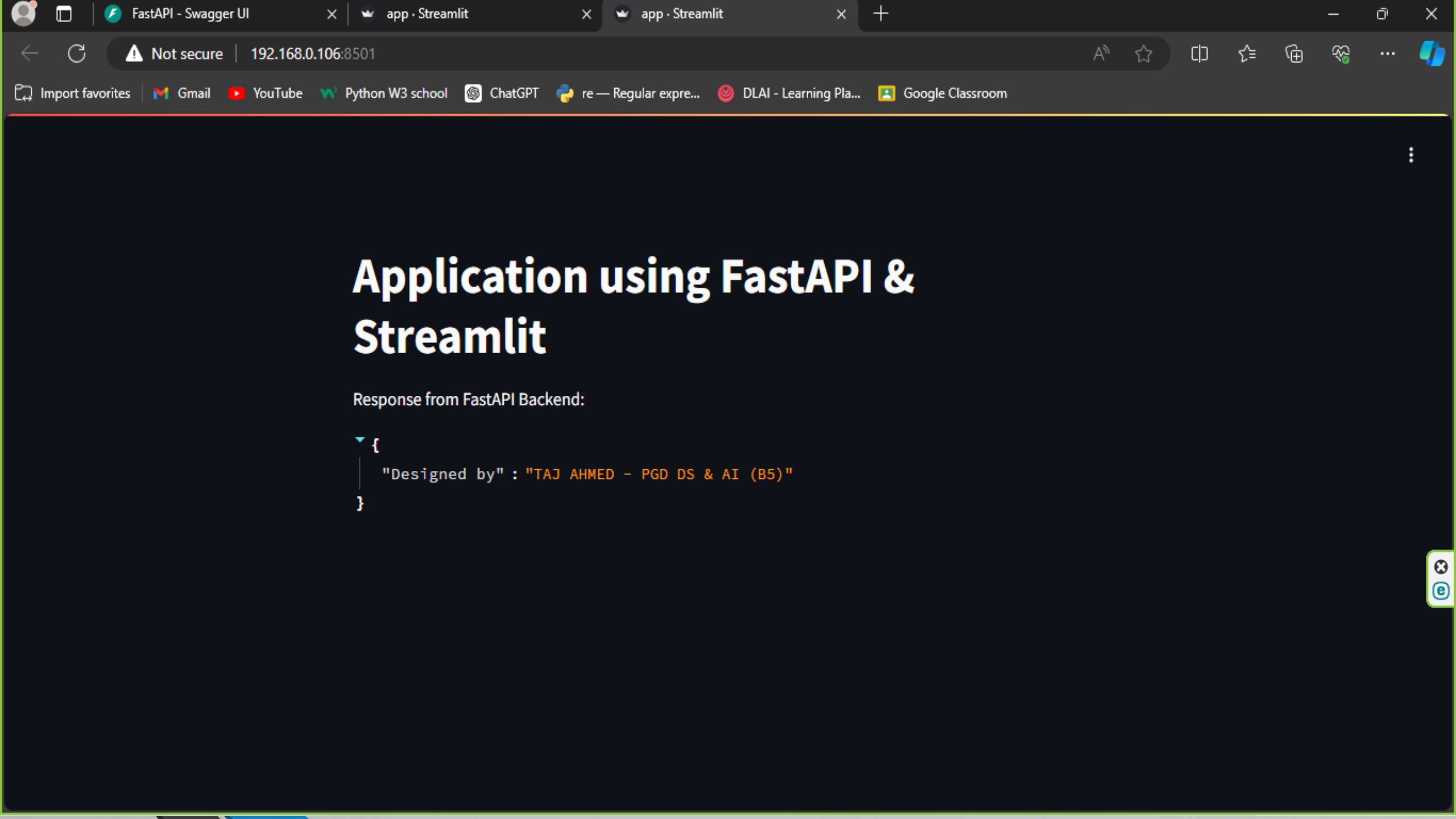


Deploy ⋮

# Application using FastAPI & Streamlit

Response from FastAPI Backend:

```
▼ {  
  "Designed by" : "TAJ AHMED - PGD DS & AI (B5)"  
}
```



# Application using FastAPI & Streamlit

Response from FastAPI Backend:

```
▼ {  
  "Designed by": "TAJ AHMED - PGD DS & AI (B5)"  
}
```