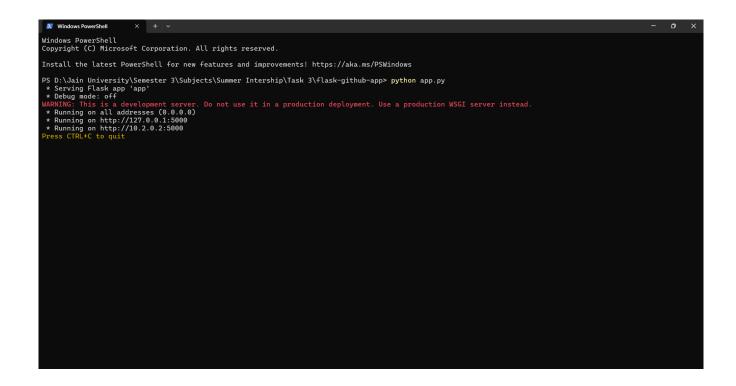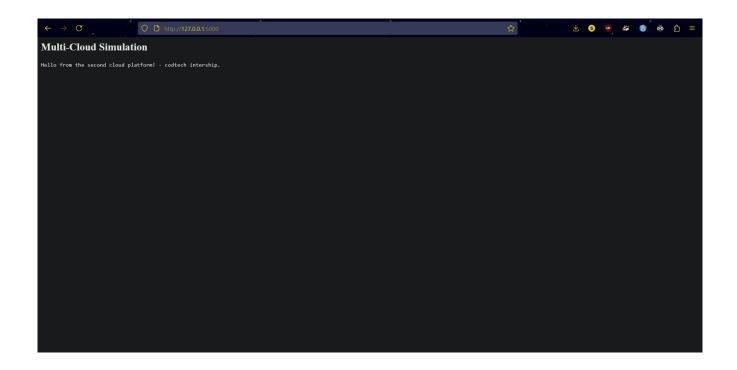# 🌐 Task 3: Simulated Multi-Cloud Architecture

✅ Objective
- Simulate a multi-cloud architecture where data is fetched across two cloud
- platforms using AWS EC2 and a GitHub-hosted file.

🔶 AWS EC2 (App Host)
- Deployed a Flask app on EC2
- Pulled external data from GitHub using Python requests

🔶 GitHub (File Host)
- Public file hosted on GitHub simulates a second cloud service
- Used raw URL to access the file directly

📡 Demonstrated Interoperability
- EC2 (AWS) -> GitHub (Public cloud data source)
- Communication via HTTP GET requests

📸 Screenshots

```
ec2-user@ip-172-31-90-75:~        ×    +   ⌄                                                    —  ☐  ×

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\Downloads> ssh -i Task-301.pem ec2-user@ec2-44-210-141-12.compute-1.amazonaws.com
The authenticity of host 'ec2-44-210-141-12.compute-1.amazonaws.com (44.210.141.12)' can't be established.
ED25519 key fingerprint is SHA256:HyegT99uBB/TW6yq/4HaXsqAhtnkXqzjrcVbStP/Gcg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'ec2-44-210-141-12.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Bad permissions. Try removing permissions for user: NT AUTHORITY\\Authenticated Users (S-1-5-11) on file D:/Downloads/Task-301.pem.
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@        WARNING: UNPROTECTED PRIVATE KEY FILE!          @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions for 'Task-301.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "Task-301.pem": bad permissions
ec2-user@ec2-44-210-141-12.compute-1.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
PS D:\Downloads> ssh -i Task-301.pem ec2-user@ec2-44-210-141-12.compute-1.amazonaws.com
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
        _/m/'
[ec2-user@ip-172-31-90-75 ~]$ |
```

```python
from flask import Flask
import requests

app = Flask(__name__)

@app.route('/')
def fetch_file():
    url = "https://raw.githubusercontent.com/SrudeepR/Task-3/refs/heads/main/Sample.txt"
    response = requests.get(url)
    return f"<h2>Multi-Cloud Simulation</h2><pre>{response.text}</pre>"

if __name__ == '__main__':
    app.run(host="0.0.0.0", port=5000)
```

Multi-Cloud Simulation

Hello from the second cloud platform! - codtech intership.

✅ Task Completed
📅 Date: [18th July 2025]
☁️ Cloud Providers Simulated: AWS + GitHub