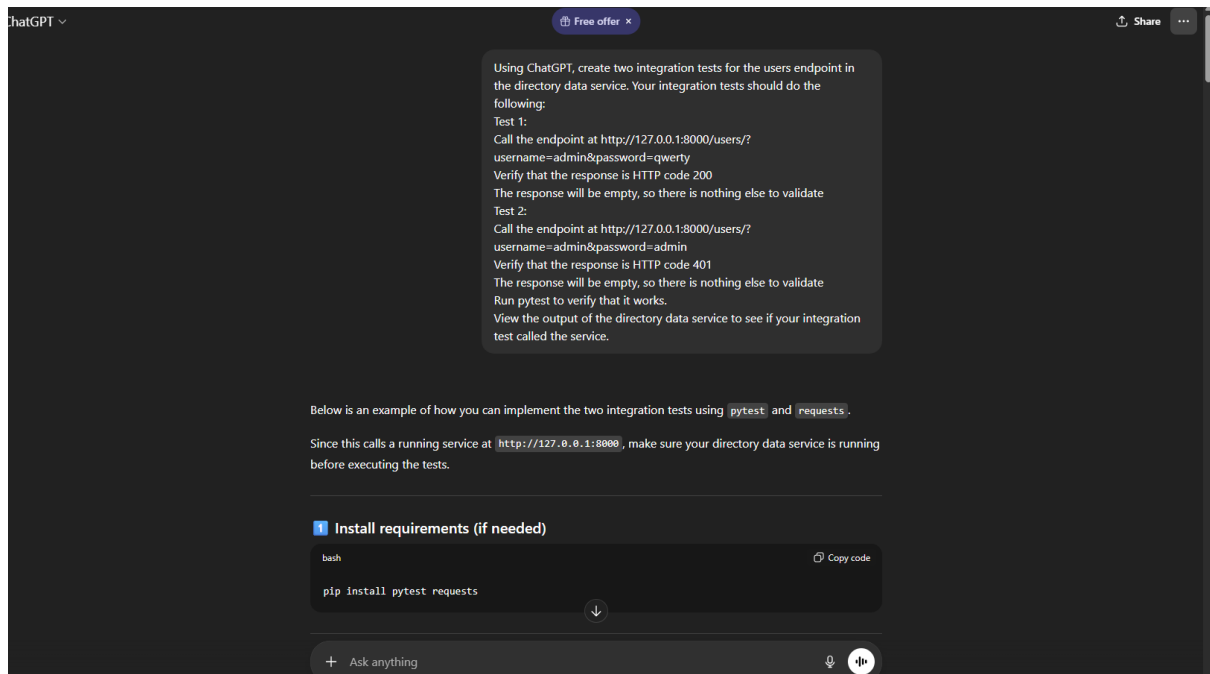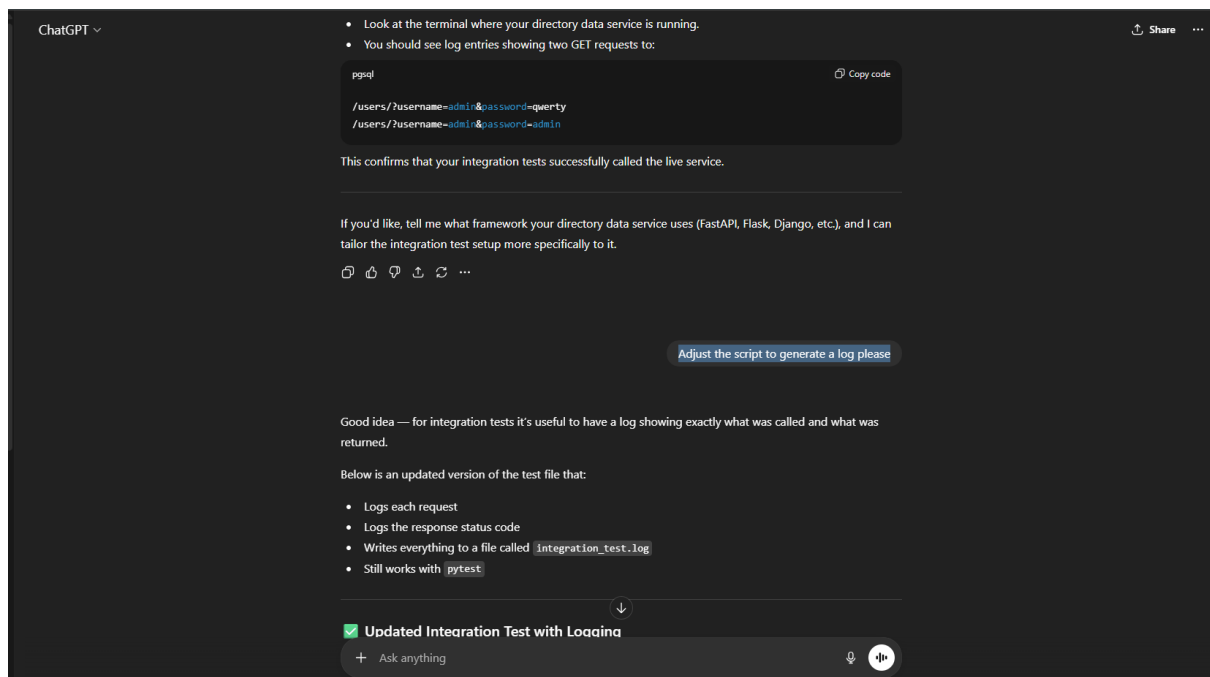W06 Assignment: Integration Tests using ChatGPT

Name : Diogo Rangel Dos Santos

Once you have an integration test that works, copy and paste the prompts you used in ChatGPT into a word document, then upload the following files to Canvas:

Using ChatGPT, create two integration tests for the users endpoint in the directory data service. Your integration tests should do the following: Test 1: Call the endpoint at http://127.0.0.1:8000/users/?username=admin&password=qwerty Verify that the response is HTTP code 200 The response will be empty, so there is nothing else to validate Test 2: Call the endpoint at http://127.0.0.1:8000/users/?username=admin&password=admin Verify that the response is HTTP code 401 The response will be empty, so there is nothing else to validate Run pytest to verify that it works. View the output of the directory data service to see if your integration test called the service.

- Look at the terminal where your directory data service is running.
- You should see log entries showing two GET requests to:

```pgsql
/users/?username=admin&password=qwerty
/users/?username=admin&password=admin
```

This confirms that your integration tests successfully called the live service.

If you'd like, tell me what framework your directory data service uses (FastAPI, Flask, Django, etc.), and I can tailor the integration test setup more specifically to it.

Adjust the script to generate a log please

Good idea — for integration tests it's useful to have a log showing exactly what was called and what was returned.

Below is an updated version of the test file that:

- Logs each request
- Logs the response status code
- Writes everything to a file called `integration_test.log`
- Still works with `pytest`

✅ **Updated Integration Test with Logging**

Adjust the script to generate a log please

```
PS C:\Users\DiogoRangelDosSantos\Projetos\cse270-v15\cse270> pytest .\tests\test_users.
py --verbose
================================ 2 passed in 0.10s ================================
PS C:\Users\DiogoRangelDosSantos\Projetos\cse270-v15\cse270> pytest .\tests\test_users.
py --verbose
================================ test session starts ================================
platform win32 -- Python 3.14.2, pytest-9.0.2, pluggy-1.6.0 -- C:\Users\DiogoRangelDosS
antos\AppData\Local\Python\pythoncore-3.14-64\python.exe
cachedir: .pytest_cache
metadata: {'Python': '3.14.2', 'Platform': 'Windows-11-10.0.26200-SP0', 'Packages': {'p
ytest': '9.0.2', 'pluggy': '1.6.0'}, 'Plugins': {'html': '4.2.0', 'metadata': '3.1.1'},
 'JAVA_HOME': 'C:\\Program Files\\Java\\jdk-17'}
rootdir: C:\Users\DiogoRangelDosSantos\Projetos\cse270-v15\cse270
plugins: html-4.2.0, metadata-3.1.1
collected 2 items

tests/test_users.py::test_users_invalid_password PASSED                      [ 50%]
tests/test_users.py::test_users_valid_password PASSED                        [100%]


================================ 2 passed in 0.12s ================================
```

.gitignore.txt | integration_test.log | integration_test.txt.log × | +

ıivo   Editar   Exibir

```
6-02-11 17:51:41,578 - INFO - Sending request to http://127.0.0.1:8000/users/ with params {'username': 'admin', 'password': 'qwerty'}
6-02-11 17:51:41,584 - INFO - Received response status: 200
6-02-11 17:51:41,586 - INFO - Sending request to http://127.0.0.1:8000/users/ with params {'username': 'admin', 'password': 'admin'}
6-02-11 17:51:41,592 - INFO - Received response status: 401
```

L Col 1   300 caracteres   Texto sem formatação   100%   Windows (CRLF)   UTF-8