

Manual Testing Report 1

Date: 02/08/2026

Name: Yu-Kuang Chen

1. Test Steps

a. Environment setup

In order to guarantee everything will be able to run smoothly without dependency conflict or issues, it is advised to install the packages specified in the `requirements.txt` file.

(<https://github.com/FalsedeerX/AI-RedTeam/blob/main/test/requirements.txt>.)

environment setup can be achieved by the following commands:

```
python -m venv .venv
source .venv/bin/activate
pip install -r requirements.txt
```

b. Automated testing

To make `pytest` able to locate the test folder successfully, you will need to invoke pytest in the project root. After changing directory you can run the automated test cases by the following command:

```
pytest -v
```

2. Expected vs Actual Output

It is expected for the backend to pass all the test cases without any warning or errors, and for the actual output we got 3 warnings for using deprecated methods but all the test cases eventually passed without any errors.

Transcript:

```
===== warnings summary=====
test/test_backend.py::test_login_failure
  /home/falsedeer/Workspace/AI-RedTeam/backend/verification/services/auth_service.py:12:
DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled for removal in
a future version. Use timezone-aware objects to represent datetimes in UTC:
datetime.datetime.now(datetime.UTC).
    "time": datetime.utcnow().isoformat(),

test/test_backend.py::test_scan_and_report_flow
```

```
/home/falsedeer/Workspace/AI-RedTeam/backend/verification/services/scan_service.py:21:
DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled for removal in
a future version. Use timezone-aware objects to represent datetimes in UTC:
datetime.datetime.now(datetime.UTC).
```

```
"started_at": datetime.utcnow().isoformat(),
```

```
test/test_backend.py::test_scan_and_report_flow
```

```
/home/falsedeer/Workspace/AI-RedTeam/backend/verification/services/scan_service.py:22:
DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled for removal in
a future version. Use timezone-aware objects to represent datetimes in UTC:
datetime.datetime.now(datetime.UTC).
```

```
"finished_at": datetime.utcnow().isoformat(),
```

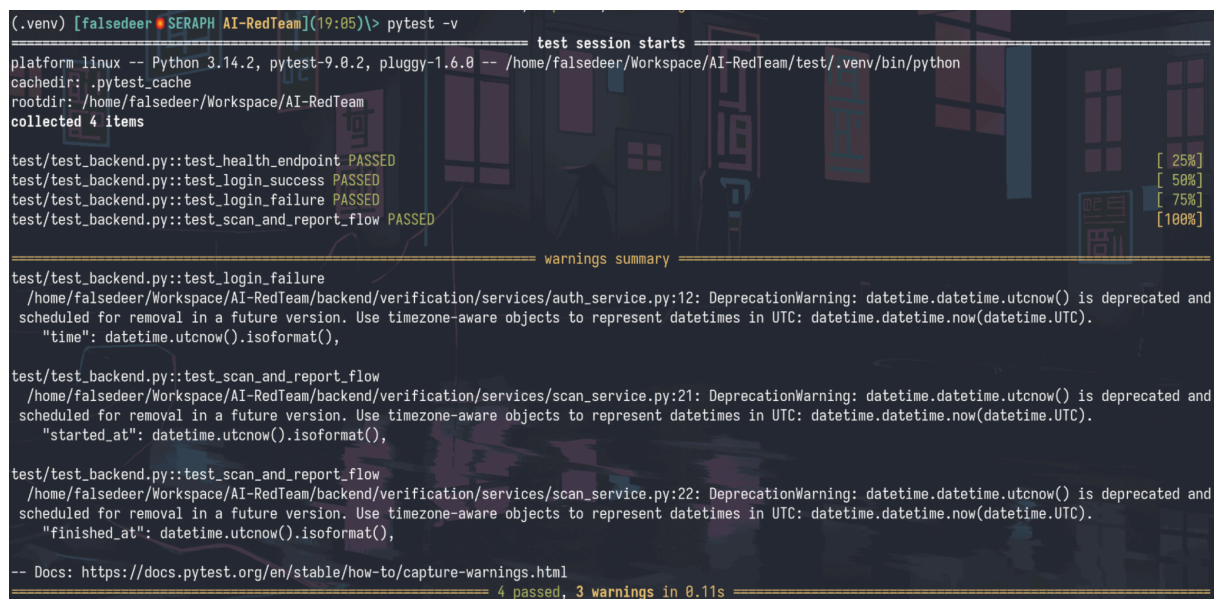
```
-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
```

```
===== 4 passed, 3 warnings in 0.10s =====
```

3. Outcome (pass/fail)

All test cases passed without any error.

4. Evidence (Screenshot / Logs)



```
(.venv) [falsedeer@SERAPH AI-RedTeam](19:05)> pytest -v
test session starts
platform linux -- Python 3.14.2, pytest-9.0.2, pluggy-1.6.0 -- /home/falsedeer/Workspace/AI-RedTeam/test/.venv/bin/python
cachedir: .pytest_cache
rootdir: /home/falsedeer/Workspace/AI-RedTeam
collected 4 items

test/test_backend.py::test_health_endpoint PASSED [ 25%]
test/test_backend.py::test_login_success PASSED [ 50%]
test/test_backend.py::test_login_failure PASSED [ 75%]
test/test_backend.py::test_scan_and_report_flow PASSED [100%]

===== warnings summary =====

test/test_backend.py::test_login_failure
/home/falsedeer/Workspace/AI-RedTeam/backend/verification/services/auth_service.py:12: DeprecationWarning: datetime.datetime.utcnow() is deprecated and
scheduled for removal in a future version. Use timezone-aware objects to represent datetimes in UTC: datetime.datetime.now(datetime.UTC).
    "time": datetime.utcnow().isoformat(),

test/test_backend.py::test_scan_and_report_flow
/home/falsedeer/Workspace/AI-RedTeam/backend/verification/services/scan_service.py:21: DeprecationWarning: datetime.datetime.utcnow() is deprecated and
scheduled for removal in a future version. Use timezone-aware objects to represent datetimes in UTC: datetime.datetime.now(datetime.UTC).
    "started_at": datetime.utcnow().isoformat(),

test/test_backend.py::test_scan_and_report_flow
/home/falsedeer/Workspace/AI-RedTeam/backend/verification/services/scan_service.py:22: DeprecationWarning: datetime.datetime.utcnow() is deprecated and
scheduled for removal in a future version. Use timezone-aware objects to represent datetimes in UTC: datetime.datetime.now(datetime.UTC).
    "finished_at": datetime.utcnow().isoformat(),

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 4 passed, 3 warnings in 0.11s =====
```

5. Next Steps as Required

Based on the output and recommendations provided by `pytest`, we will proceed to update the test case to ensure that the timestamps used are timezone aware and aligns with current best practices.