

CISC327 F24 Group 62-AA Assignment 4

Coverage Explanation PDF

November 11th 2024

* Test script at [./app/test_app.py](#) *

Coverage report via coverage:

```
===== 12 passed in 0.18s =====
ethanchankowsky@16Machine Group-62-AA-Assignment1 % coverage report -m
Name                               Stmts  Miss  Cover   Missing
-----
app/__init__.py                     0      0   100%
app/app.py                          43      9    79%   28, 33, 40-41, 48-49, 53, 58, 62
app/entities/__init__.py            0      0   100%
app/entities/account.py              9      0   100%
app/entities/flight.py              12      0   100%
app/presentation/auth/auth_controller.py  23      6    74%   21, 34, 37-38, 41, 44
app/presentation/flights/flight_controller.py  7      2    71%   9-10
app/presentation/home/home_controller.py  7      2    71%   8-9
app/service/__init__.py              0      0   100%
app/service/account/service.py       41     10    76%   56-60, 63-74
app/service/account/validator.py     22      2    91%   16, 23
app/service/error_map.py            12      0   100%
app/service/flight/service.py         8      1    88%   14
app/storage/sqlite_storage.py        73      2    97%   88, 140
app/storage/storage.py               12      3    75%   10, 13, 18
app/test_app.py                     118      3    97%   12, 16-17
TOTAL                               387     40    90%
ethanchankowsky@16Machine Group-62-AA-Assignment1 % █
```

Missed coverage for statements across files for which coverage <100%:

app.py

- **28, 33:** No tests for unhandled request methods or missing route cases.
- **40-41:** Missing POST handling for /logout
- **48-49, 53:** No tests for missing form data in sign-up and login
- **58, 62:** Missing coverage for empty or invalid session in flights.

auth_controller.py

- **21:** Misses edge cases for account_service.create returning errors
- **34:** Incomplete error handling for authenticate failure.
- **37-38:** Missing handling for cases where authenticate returns an error.
- **41, 44:** No coverage for invalid session in logout.

flight_controller.py

- **9-10:** Missing tests for invalid request handling in `get_flights`.

home_controller.py

- **8-9:** No tests for `get_home_page` when session or `JWT_SECRET` is invalid.

validator.py

- **16, 23:** No tests for edge cases in input validation logic (e.g., empty or unexpected inputs).

flight/service.py

- **14:** No tests for exceptions or edge cases when fetching flight data

account/service.py

- **56-60:** Missing tests for error handling when account creation fails.
- **63-74:** No tests for exceptions or edge cases during account validation.

sqlite_storage.py

- **88:** Misses edge case where `CREATE_ACCOUNTS_TABLE_STATEMENT` execution fails.
- **140:** No tests for scenarios where `_row_to_flight` processes invalid data

storage.py

- **10, 13, 18:** No tests for unimplemented methods in the `Storage` abstract class.

Assignment Contributions:

Ethan - tests and analysis (33.3%)

Daniel - tests and analysis (33.3%)

Kareem - tests and analysis (33.3%)