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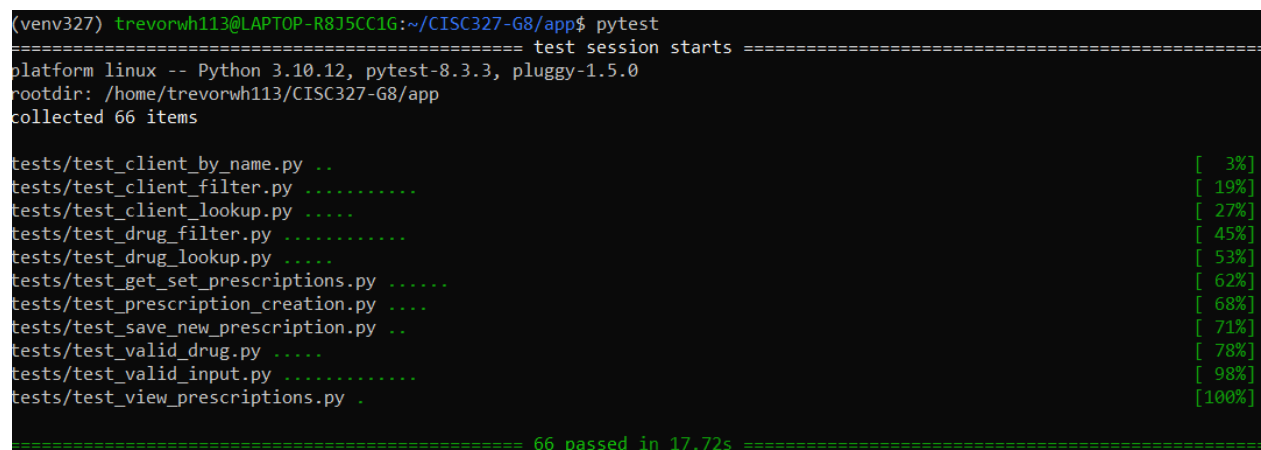
Project Assignment 3

Prototype Completion and Requirement Tests

Just as with the previous assignment, this file contains proof of all tests written for the project running successfully in the form of screenshots. Note that in the process of integrating the database, new functions were added and some features became complete enough to test. Accordingly, a few new tests were created to ensure full coverage.

1. All Tests

All the tests pass when run together using `pytest tests/`.



```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app$ pytest
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app
collected 66 items

tests/test_client_by_name.py ..                      [ 3%]
tests/test_client_filter.py .....                    [ 19%]
tests/test_client_lookup.py .....                   [ 27%]
tests/test_drug_filter.py .....                     [ 45%]
tests/test_drug_lookup.py .....                     [ 53%]
tests/test_get_set_prescriptions.py .....            [ 62%]
tests/test_prescription_creation.py ....             [ 68%]
tests/test_save_new_prescription.py ..               [ 71%]
tests/test_valid_drug.py .....                       [ 78%]
tests/test_valid_input.py .....                     [ 90%]
tests/test_view_prescriptions.py .                   [100%]

===== 66 passed in 17.72s =====
```

2. Unit Tests

The following screenshots are individual proof that the unit tests pass. As a reminder, we are using the term *unit test* here to specifically refer to those testing from a **middleware perspective**. That is, tests that verify the backend integration and other logical utilities. Since we eliminated the use of `client.py`, these are now only relating to functions defined in `utility.py`.

2.1 test_client_by_name.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_client_by_name.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 2 items

test_client_by_name.py ..                                     [100%]

===== 2 passed in 1.24s =====
```

2.2 test_client_filter.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_client_filter.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 11 items

test_client_filter.py .....                                [100%]

===== 11 passed in 0.59s =====
```

2.3 test_drug_filter.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_drug_filter.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 12 items

test_drug_filter.py .....                                  [100%]

===== 12 passed in 0.53s =====
```

2.4 test_get_set_prescriptions.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_get_set_prescriptions.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 6 items

test_get_set_prescriptions.py .....                        [100%]

===== 6 passed in 5.61s =====
```

Note that this test modifies the prescription entries in the PIPER MARIO client database entry.

2.5 test_save_new_prescription.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_save_new_prescription.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 2 items

test_save_new_prescription.py ..                             [100%]

===== 2 passed in 3.41s =====
```

Note that this test adds 2 new prescription entries in the CAR BINKY client database entry.

2.6 test_valid_drug.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_valid_drug.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 5 items

test_valid_drug.py ..... [100%]

===== 5 passed in 1.87s =====
```

2.7 test_valid_input.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_valid_input.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 13 items

test_valid_input.py ..... [100%]

===== 13 passed in 0.06s =====
```

3. Front-End Tests

Finally, we have the individual outputs for the front-end test cases. As per the name, these tests verify the **front-end perspective**, ensuring the Flask routes and their corresponding html displays load and operate as intended. This category of tests are the ones that relate most directly to the test cases defined previously in Assignment 1.

3.1 test_client_lookup.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_client_lookup.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 5 items

test_client_lookup.py ..... [100%]

===== 5 passed in 2.25s =====
```

3.2 test_drug_lookup.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_drug_lookup.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 5 items

test_drug_lookup.py ..... [100%]

===== 5 passed in 1.94s =====
```

3.3 test_view_prescriptions.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_view_prescriptions.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 1 item

test_view_prescriptions.py . [100%]

===== 1 passed in 0.63s =====
```

3.4 test_prescription_creation.py

```
(venv327) trevorwh113@LAPTOP-R8J5CC1G:~/CISC327-G8/app/tests$ pytest test_prescription_creation.py
===== test session starts =====
platform linux -- Python 3.10.12, pytest-8.3.3, pluggy-1.5.0
rootdir: /home/trevorwh113/CISC327-G8/app/tests
collected 4 items

test_prescription_creation.py .... [100%]

===== 4 passed in 2.41s =====
```

Note that this test adds 1 new prescription entry in the JOHN DOE client database entry.