

Testing Report

We used the pytest framework to test our program. We ran our tests directly from Visual Studio Code using a pytest framework that helps integrate it into VSC.

Organization of Tests

- We used the CI-Python template on Github and used Approach #2 to keep all of our testing confined to code without the use of external files
- Organized into test files that contained a grouping of tests
 - ie. test_login.py, test_withdraw.py

Notes

- Logout test cases covered throughout other tests
 - Removed for redundancy's sake
 - Tested simply in login tests
- Added tests that were missed in assignment 1
 - Testing if transactions on newly created/deleted accounts are rejected
 - Createacct T12 and deleteacct T5

Failure Report

Round 1

| Test Name | Description of Failure | Error in Code | How Fixed |
|----------------------|--|---|---|
| Deposit - T3 | Should reject deposit of over \$2000 in ATM mode | <p>valid_amount() in validator Object not working correctly</p> <p>Lines 44 and 47 in input_validation.py</p> | <p>Testing if Enum for SessionType.ATM or SessionType.Agent is equal to the session's SessionType always false. Compared the enumerator's values directly instead to fix this</p> |
| Deposit - T4 | Should reject deposit of under \$0 in ATM mode | | |
| Deposit - T8 | Should reject deposit of over \$999,999.99 in Agent mode | | |
| Deposit - T9 | Should reject deposit under \$0 in Agent mode | | |
| Withdraw - T3 | Should reject withdraw of over \$1000 in ATM mode | | |
| Withdraw - T4 | Should reject withdraw of under \$0 in ATM mode | | |
| Withdraw - T8 | Should reject withdraw of over \$999,999.99 in agent mode | | |
| Withdraw - T9 | Should reject withdraw of under \$0 in Agent mode | | |
| Transfer - T3 | Should reject transfer of over \$10000 | | |
| Transfer - T4 | Should reject transfer of amount under \$0 in ATM mode | | |
| Transfer - T8 | Should reject transfer of over \$999,999.99 in agent mode | | |
| Transfer - T9 | Should reject transfer of under \$0 in agent mode | | |
| Create Account - T9 | Should reject new accounts with a name starting with a space | <p>Discovered that Python ignores spaces at the beginning and end of terminal input therefore the testing for discovering these spaces are irrelevant in Python</p> | <p>Changed the tests to reflect this and show that the accounts are successfully created with correct transaction summary output</p> |
| Create Account - T10 | Should reject new accounts with a name ending with a space | | |
| Create Account - T12 | Expected test output incorrect | <p>Did not expect NEW transaction in transaction summary</p> | <p>Added corresponding NEW transaction for successful created account</p> |
| Delete Account - T4 | Test code expected output incorrect | <p>Expecting the wrong output for a successfully deleted account</p> | <p>'Invalid Account Number or Name' changed to 'Account Deleted'</p> |
| Delete Account - T5 | Expected test output incorrect | <p>Did not expect DEL transaction in transaction summary</p> | <p>Added corresponding DEL transaction for successful deleted account</p> |

Round 2

All tests passed