

# Test Report

## Test Summary

| Number of Test Suites | Number of Test Cases | Number of Passes | Number of Failures | Number of Errors | Success Rate |
|-----------------------|----------------------|------------------|--------------------|------------------|--------------|
| 3                     | 14                   | 12               | 1                  | 1                | 85.7143%     |

## Test Enviornment

| OS Type | OS Version            | IP Address | Test Directory                | Python Version |
|---------|-----------------------|------------|-------------------------------|----------------|
| Linux   | 5.10.0-28-cloud-amd64 | 10.154.0.2 | /home/lmiller/BankApplication | 3.9.2          |

## Test Execution Details

| Test Suite's Executed   | Start Time          | End Time            | Total Time |
|---|---------------------|---------------------|------------|
| ['test_current_account', 'test_savings_account', 'test_person'] | 2024-04-26 20:00:02 | 2024-04-26 20:00:02 | 0.1118s    |

## Test Suite Results

| Test Suite Name         | Time                       | Passed | Failed | Error | Execution Time |
|-------------------------|----------------------------|--------|--------|-------|----------------|
| test_current_account.py | 2024-04-26 21:00:01.250967 | 5      | 0      | 0     | 0.0520s        |

| Test Case Name    | Status | Errors | Execution Time |
|-------------------|--------|--------|----------------|
| test_deposit      | Passed | N/A    | 0.0001s        |
| test_getBalance   | Passed | N/A    | 0.0000s        |
| test_getName      | Passed | N/A    | 0.0000s        |
| test_getOverdraft | Passed | N/A    | 0.0000s        |

|                  |        |     |         |
|------------------|--------|-----|---------|
| test_getWithdraw | Passed | N/A | 0.0000s |
|------------------|--------|-----|---------|

| Function Coverage | Line Coverage | Branch Coverage | Covered Functions  | Uncovered Functions |
|-------------------|---------------|-----------------|--|---------------------|
| 100.0000%         | 100.0000%     | 50.0000%        | ['__init__', 'getName', 'getBalance', 'getOverdraft', 'deposit', 'withdraw'] | []                  |

| Test Suite Name         | Time                          | Passed | Failed | Error | Execution Time |
|-------------------------|-------------------------------|--------|--------|-------|----------------|
| test_savings_account.py | 2024-04-26<br>21:00:01.250995 | 5      | 1      | 1     | 0.0320s        |

| Test Case Name     | Status | Errors  | Execution Time |
|--------------------|--------|---|----------------|
| test_deposit       | Passed | N/A   | 0.0001s        |
| test_deposit_false | Passed | N/A   | 0.0000s        |
| test_getBalance    | Passed | N/A   | 0.0000s        |
| test_getName       | Passed | N/A   | 0.0000s        |
| test_getOverdraft  | Error  | Traceback (most recent call last): File "/usr/lib/python3.9/unittest/case.py", line 59, in testPartExecutor yield File "/usr/lib/python3.9/unittest/case.py", line 593, in run self._callTestMethod(testMethod) File "/usr/lib/python3.9/unittest/case.py", line 550, in _callTestMethod method() File "/home/lmiller/BankApplication/test_savings_account.py", line 19, in test_getOverdraft self.assertEqual(current_account.getOverdraft(), 100) AttributeError: 'SavingsAccount' object has no attribute 'getOverdraft' | 0.0000s        |

|                     |        |  |         |
|---------------------|--------|--|---------|
|                     |        | Traceback (most recent call last): File "/usr/lib/python3.9/unittest/case.py", line 59, in testPartExecutor yield File "/usr/lib/python3.9/unittest/case.py", line 593, in run self._callTestMethod(testMethod) File "/usr/lib/python3.9/unittest/case.py", line 550, in _callTestMethod method() File "/home/lmiller/BankApplication/test_savings_account.py", line 34, in test_withdraw self.assertEqual(current_account.getBalance(), 400) File "/usr/lib/python3.9/unittest/case.py", line 831, in assertEquals assertion_func(first, second, msg=msg) File "/usr/lib/python3.9/unittest/case.py", line 824, in _baseAssertEqual raise self.failureException(msg) AssertionError: 500 != 400 |         |
| test_withdraw       | Failed |  | 0.0001s |
| test_withdraw_false | Passed | N/A  | 0.0000s |

| Function Coverage | Line Coverage | Branch Coverage | Covered Functions  | Uncovered Functions |
|-------------------|---------------|-----------------|--|---------------------|
| 83.3333%          | 88.2353%      | 75.0000%        | ['__init__', 'getName', 'getBalance', 'deposit', 'withdraw'] | ['getLimit']        |

| Test Suite Name | Time                          | Passed | Failed | Error | Execution Time |
|-----------------|-------------------------------|--------|--------|-------|----------------|
| test_person.py  | 2024-04-26<br>21:00:01.251004 | 2      | 0      | 0     | 0.0277s        |

| Test Case Name        | Status | Errors | Execution Time |
|-----------------------|--------|--------|----------------|
| test_getAccountNumber | Passed | N/A    | 0.0001s        |
| test_getName          | Passed | N/A    | 0.0000s        |

| Function Coverage | Line Coverage | Branch Coverage | Covered Functions                           | Uncovered Functions |
|-------------------|---------------|-----------------|---|---------------------|
| 100.0000%         | 100.0000%     | 100.0000%       | ['__init__', 'getName', 'getAccountNumber'] | []                  |

# Risk Analysis

The following defects were found