

TEST PLAN: FIRST BANK OF NERDS

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Abstract

A working model of a small bank.

1 Test Plan Summary:

At the heart of our project lies a comprehensive testing program designed to ensure that our banking system is nothing short of flawless. Our project test files consist of a comprehensive list of test cases that put every aspect of our system to the test, guaranteeing that our platform is robust, reliable, and fully functional.

We will also be conducting extensive possible variations of navigating through the bank to identify and eliminate any bugs. With our testing program, you can confident that our system is built to perform at the highest level.

2 Test Files:

1. test_checking.py
2. test_savings.py
3. test_customer.py
4. test_retirement.py
5. test_money_market.py

3 Automated Test Cases

Automated tests may be executed with **python3 -m unittest**. This will both build the tests and run them. These are all unit tests of classes. The tests should be entirely automated and output whether they pass or fail.

4 Common Test cases:

4.1 TC1: Installation:

Prerequisites: bank_of_nerds Directory does not already exist

1. git clone git@git.umbc.tc:tdqc/tdqc12/wsmith/bank_of_nerds.git
2. cd bank_of_nerds

Expected: cd bank_of_nerds directory is created

4.2 TC2: Correct Branch

Prerequisites: In the project's directory

1. git branch

Expected: main is the default branch

4.3 TC3: Build Explicit / No Command-line Argument

1. python3 bank_of_nerds.py
2. echo \$?

Expected: Program runs and exits successfully

4.4 TC4: Command-line Argument

1. python3 bank_of_nerds.py -option
2. echo \$?

Expected: Program exits with usage error

4.5 TC5: Command-line Argument

1. python3 bank_of_nerds.py --secret=backdoor
2. echo \$?

Expected: Program runs and exits successfully