Test Report: Project Phase 2, Team 12

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CS 301

**Input Validation Test:**

These tests verify that the program responds appropriately to various inputs. The following are the tests I conducted:

Attempt to create an account with an empty name: **Not allowed by input controller (PASS).**

Attempt to create an account with a duplicate account number: **Disallowed by duplicate/clash checker (PASS).**

Attempt to delete an account with an empty account number: **Not allowed by input controller (PASS).**

Attempt to delete an account with an incorrect password: **Disallowed by password validator (PASS).**

Attempt to delete an account that does not exist: **Disallowed by account finder (PASS).**

Attempt to get an account's balance with an empty account number: **Not allowed by input controller (PASS).**

Attempt to get an account's balance with an incorrect password: **Disallowed by password validator (PASS).**

Attempt to get an account's balance for an account that does not exist: **Disallowed by account finder (PASS).**

**Account Creation Test:**

These tests verify that the program successfully creates accounts and limits the database capacity. The following are the tests I conducted:

Create a new account with a unique account number: **Successfully creates unique account (PASS).**

Create a new account when the bank database is full: **Disallowed by maximum capacity checker (PASS)**.

**Account Deletion Test:**

These tests verify that the program successfully deletes accounts and checks for incorrect inputs. The following are the tests I conducted:

Delete an existing account with a valid account number and password: **Successfully deletes account after password validation (PASS).**

Delete an existing account with an invalid password: **Disallowed by password validator (PASS)**.

Attempt to delete a non-existing account: **Disallowed by account finder (PASS)**.

**Account Balance Test:**

These tests verify that the program checks account balances and checks for incorrect inputs. The following are the tests I conducted:

Get the balance of an existing account with a valid account number and password: **Successfully outputs account balance after password validation (PASS).**

Get the balance of an existing account with an invalid password: **Disallowed by password validator (PASS)**.

Attempt to get the balance of a non-existing account: **Disallowed by account finder (PASS)**.

**Account Storage Test:**

These tests verify that the program checks account balances and checks for incorrect inputs. The following are the tests I conducted:

Store account information to a file and verify that the information is stored correctly: **File output functions correctly (PASS)**.

Retrieve account information from a file and verify that the information is retrieved correctly: **File input functions correctly (PASS)**.

**Account Display Test:**

Verify that the program can display all accounts. The following test cases can be used:

Display all accounts when there are one or more accounts.

Text

Description automatically generated

Display all accounts when there are no accounts.

Text

Description automatically generated