**TEST PLAN – SOFTWARE ARCH & DESIGN PROJECT ASSIGNMENT #1**

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1. PURPOSE

The purpose of this document is to guide a user through a set of tests that will prove/disprove that the program delivers all functionality that it is supposed to contain. Tests are broken down by User Type and User functionality. Multiple tests may exist for one type of functionality. In order to test the functionality, read an explanation of the test and follow the steps in order to run the test. The tests are to be completed sequentially to ensure that the user is logged into the appropriate account to run the tests from.

1. CUSTOMER FUNCTIONALITY TESTS
   1. LOGIN AS CUSTOMER
      1. Login with invalid username/password combo
         1. Explanation: Test that non-users are incapable of logging into and accessing the bank system
         2. Steps:
            1. Run software-arch-project/app/main.py
            2. Username Prompt: Type “**nonUser**”
            3. Password Prompt: Type “**blah**” (or whatever you want)
            4. Observe login error message
      2. Login with valid username/password combo
         1. Explanation:
         2. Steps:
   2. GET HELP WITH CUSTOMER OPTIONS
      1. Get help with customer options
         1. Explanation
         2. Steps
   3. DEPOSIT (ADD) FUNDS
      1. Deposit funds to account belonging to user
      2. Deposit funds to account not belonging to user
   4. WITHDRAW FUNDS
      1. Withdraw amount less than or equal to the funds in account
      2. Try to withdraw more funds than are in account
      3. Try to withdraw funds from an account that doesn’t belong to the user
   5. TRANSFER FUNDS
      1. Transfer amount of funds less than or equal to the funds in account
      2. Try to transfer more funds than are in account
      3. Try to transfer funds to an account that doesn’t belong to the user
      4. Try to transfer funds from an account that doesn’t belong to the user
   6. VIEW CUSTOMER TRANSACTION LOG
      1. View all customer transactions
   7. EXIT APPLICATION
      1. Exit the application
2. ADMIN FUNCTIONALITY
   1. LOGIN AS ADMIN
      1. Login with valid username/password combo
   2. GET HELP WITH ADMIN OPTIONS
      1. Get help with admin options
         1. Explanation:
         2. Steps:
   3. CREATE CUSTOMER
      1. Create user with valid username/password combo
      2. Try to create user with already existing username
      3. Try to create user with password that is too short
   4. ASSIGN ACCOUNTS TO CUSTOMER
      1. Assign a checking account to customer
      2. Assign a savings account to customer
   5. VIEW SYSTEM LOG (ALL CUSTOMER TRANSACTIONS)
      1. View system log
   6. LIST ACCOUNT NUMBERS, CUSTOMERS, AND BALANCES
      1. List account information
      2. List customer information
   7. SUSPEND ACCOUNT
      1. Suspend customer account
      2. Try to suspend admin account
   8. REACTIVATE ACCOUNT
      1. Reactivate suspended customer account
      2. Activate already active account
   9. EXIT APPLICATION
      1. Exit the application