**Assignment 1: Testing**

**By: Matthew, Neil and Daljit**

**Tests**

|  |  |  |
| --- | --- | --- |
| **Input Type** | **Test Cases** | **What They intend** |
| Login | 1. No Transaction while not logged in 2. No Other Logins 3. Standard login 4. Admin login | 1. Shows that when not logged in, no transaction will be accepted 2. Shows that once on login occurs, no other login will occur 3. Standard login has access to only non privileged transaction. check this by attempted a privileged transaction. 4. Admin login has unlimited access, show this by successfully executing a privileged transaction |
| Withdraw | 1. Standard maximum acceptable withdrawal 2. Withdrawal greater than maximum amount allowed 3. Administrative withdrawal of $700.00 4. Withdrawal of a value that is not a multiple of $5 ($23) | 1. Shows that a withdrawal of $500 is acceptable for a standard account 2. Shows that a withdrawal of $600.00 3. Shows that any transaction made as an admin is acceptable 4. Shows that a withdrawal of an amount that is not a multiple of $5 is invalid |
| Transfer | 1. Standard transfer of $500 to another account 2. Standard transfer greater than maximum transfer amount 3. Transfer of negative value 4. Administrative transfer from administrative account 5. Standard transfer of $0.00 | 1. Shows that $500 will be transferred from Neil's account to Sean's account successfully, and Sean will be able to log into his valid standard account and his funds will include the amount transferred from Neil's account. Logging in to Sean's account verifies that it is a valid account 2. Shows that a transfer from a standard account to another account will be invalid due to exceeding the $1000 maximum cap, and Sean's account will not accept the transfer and leave his funds unchanged when he logs in 3. Shows that a user will not be able to transfer a negative amount to another account 4. Shows that a value greater than the cap will be successfully transferred if made from an administrative account. Logging into Neil's account varifies that is valid, and should contain updated funds 5. Shows that $0.00 cannot be transferred |
| Paybill | 1. Standard login, and pay a bill. 2. Standard login, and pay a bill over $2000. 3. Standard login, and pay a bill from a suspended account. 4. Admin login, and pay a bill. 5. Admin login, and pay a bill over $2000. 6. Admin login, and pay a bill more than the account balance. 7. Standard login, pay a bill to invalid company. 8. Standard login, student account, pay a bill, where the balance after the transaction does not equal 0. 9. Student account, pay a bill more than $2000. 10. Non-Student account, and pay a bill. 11. Admin login, student account, pay a bill, the transaction will not go through. 12. Admin login, student account, pay a bill. | **1.** Shows that bill had been paid from a standard login.  **2.** Show that it is not possible to a bill over $2000 from a standard login.  **3.** Show that it is not possible to pay a bill from suspended account.  **4.** Shows an admin login, and successfully paying the bill.  5. Show an admin login, and successfully paying a bill over $2000.  **6.** Shows that it is impossible to pay a bill more that the amount of money in the account.  **7.** Shows that it the to whom the bill is being paid to is not one of the four listed by the bank.  **8.** Shows that it is impossible to pay a bill more than the amount in the account, in a student account.  **9.** Show a bill more than $2000 can not be paid from a student account, on a standard login.  **10.** Shows that a bill was paid successfully with standard login, on a non-student account.  **11.** Shows that a transaction fee is deducted from the account before a transaction is completed. Therefore the account must have enough money to cover the bill, and the transaction.  **12.** Show that a bill was successfully paid from an Admin login, on a student account. |
| Deposit | 1. Standard login, and depositing money. 2. Standard login, and depositing money into a suspended account. 3. Admin login, and depositing money. 4. Admin login, depositing money into a wrong account. 5. Standard login, using the money deposited in the same session. 6. Admin login, depositing a negative amount. 7. Standard login, depositing $0. | 1. Shows that the amount of money was correctly deposited by a standard login. 2. Show that depositing money into a suspended account is not possible. 3. Shows that money was correctly deposited by an admin login. 4. Show that correct account information must be entered into the system 5. Show that the money deposited, is not allowed to be used in the same session. 6. Show that it is impossible to deposit a negative amount. 7. Show that it is impossible to deposit $0. The amount need’s to be larger than zero. |
| Create | 1. Standard Login  2. Admin Login  3. Max of 20 Characters working  4. Max of 20 Characters not working  5. Max Money cap working  6. Max Money cap not working | 1. Shows that when logged in as a standard user, the create command doesn’t work  2. Shows that an admin can login at create an account  3. Shows that exactly 20 characters work  4. Show that anything above 20 characters will be truncated  5. Show that the maximum amount of money an account can start with is 99999.99  6. Show that money over 99999.99 will be truncated down to 99999.99 |
| Delete | 1. Standard Login  2. Admin Login  3. Account Name Doesn’t Exists  4. Account Number Doesn’t Exists  5. No Further transaction available on Account | 1. Shows that a standard login is unable to delete an account  2. Show that an admin login will be able to delete an account  3. Show that if the account name is wrong then the account will not be deleted  4. Show that if the account number is wrong than the account number will not be deleted  5. Show that once an account is delete, there will be no transaction do on the account |
| Disable | 1. Standard Login  2. Admin Login  3. Wrong Account name  4. Wrong Account number  5. No further transaction available on account | 1. Show that a standard login is unable to disable an account  2. Show that an admin account is able to disable an account  3. Show that if the account name doesn’t exist in the system then no account will be disables  4. Show that if an account number doesn’t exist in the system then no account will be disabled  5. Once an account is disable, not transaction are available for the account |
| Enable | 1. Standard Login 2. Admin login 3. Wrong Account Name 4. Wrong Account Number | 1. Show that a standard login is unable to enable an account 2. Show that an admin login is able to enable an account 3. Show that if an account name doesn’t exists in the system, then no account will be enabled 4. Show that if an account number doesn’t exists in the system, then no account will be enabled |
| Changeplan | 1. Change Plan on a Standard login. 2. Change Plan for a suspended account on a Standard login. 3. Change plan on an Admin login, account $ not matching the account name. 4. Change Plan to Student on an Admin login. 5. Change plan on an admin login, account name not matching the account number. 6. Change Plant to Non-Student, on an admin login. | 1. Show that plans cannot be changed on a standard login. 2. Show that plans cannot be changed for a suspended account, on an standard login. 3. Shows that the correct, account number and account name must be used. 4. Show that only can change plan from non-student to student. 5. Show that account number and account name must be correct. 6. Show that only admin can change the plan from student to non-student. |
| Logout | 1. Logout as initial statement 2. Standard login & logout without transactions made 3. Administrative logout 4. /Standard login, deposit & logout followed by an administrative login & logout 5. Transaction after logout 6. Transaction after logout (2) | 1. Shows that logout cannot be the first transaction made 2. Shows that a user can simply logout after logging in without performing any transactions 3. Shows that an admin can logout after logging in, without performing any transactions 4. Shows that a standard user can make a transaction, logout, then an admin can also login and logout successfully 5. Shows that a transaction, such as a deposit cannot be made after logging out 6. Shows that a transaction, such as a withdrawal cannot be made after logging out |