

CISC327 Assignment 3

Frontend Testing Failure Report

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This is a failure report from our frontend testing of the Quinterac simple banking system. We ran our test cases from assignment 1 and indicated whether the particular test either failed or succeeded by comparing the expected output and the real output. If they don't match, we know that there has been either an error in the test input, or there is something wrong with the software that we must fix. We note if each test case succeeded or failed, and in the event of a failure, we note what we changed in our program to fix it.

| | Req. | Purpose | Input | Output | Expected Output | Changes made |
|-------|------|-------------------------------------|---|---|---|--|
| Login | R1T1 | Can't logout without logging in | logout login atm logout | Error: Selected transaction is unavailable, please login before continuing. | Error: Selected transaction is unavailable, please login before continuing. | |
| | R1T2 | Can't create account w/o logging in | createacct 1234567 JohnDoe | Error: Selected transaction is unavailable, please login before continuing. | Error: Selected transaction is unavailable, please login before continuing. | |
| | R1T3 | Can't delete account w/o logging in | deleteacct 7654321 JaneDoe | Error: Selected transaction is unavailable, please login before continuing. | Error: Selected transaction is unavailable, please login before continuing. | |
| | R1T4 | Can't deposit without logging in | deposit 1234567 10000 | Error: Selected transaction is unavailable, please login before continuing. | Error: Selected transaction is unavailable, please login before continuing. | |
| | R1T5 | Can't withdraw without logging in | withdraw 1234567 10000 | Error: Selected transaction is unavailable, please login before continuing. | Error: Selected transaction is unavailable, please login before continuing. | |
| | R1T6 | Can't transfer without logging in | transfer 1234567 10000 7654321 | Error: Selected transaction is unavailable, please login before continuing. | Error: Selected transaction is unavailable, please login before continuing. | |
| | R2T1 | Choose agent login | login agent | Please Login to begin session Enter next transaction: | Successful Agent login | No user output for whether it was a successful login, continues to wait for next transaction |
| | R3T1 | Choose machine login | login atm | Please Login to begin session Enter next transaction: | Successful ATM login | No user output for whether it was a successful login, continues to wait for next transaction |
| | R4T1 | Can't login if already logged in | login atm OR login agent | | Error: logout before logging in to an account | |
| | R5T1 | Can't log out if already logged out | logout | | Error: must be logged in to logout | |

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| Logout | R6T1 | Create TSF file on logout | logout | EOS | EOS | |
| | R7T1 | Verify that TSF corresponds correctly to session activities | logout | EOS | EOS | |
| Create acct | R8T1 | Check that new account # is 7 digits long and does not start with a 0 | createacct 0234567 JohnDoe | New account number must be 7 digits long and cannot start with a 0" | New account number must be 7 digits long and cannot start with a 0 | Had to add extra error output when the user's input did not follow regulations |
| | R8T2 | Check that new account # is different from all other account numbers | (1234567 already in accts file) createacct 1234567 JohnDoe | This account number exists already | This account number exists already | |
| | R8T3 | Check that new account name is between 3 and 30 alphanumeric characters | createacct 1234567 JohnDoeeeee eeeeeeeeee eeeeeeeeee eeeeeeeeee | New account name must be 3-30 alphanumeric characters and cannot start or end with a space" | New account name must be 3-30 alphanumeric characters and cannot start or end with a space | Had to add extra error output when the user's input did not follow regulations |
| | R8T4 | Check that new account name does not start or end with a space | createacct 1234567 JohnDoe | New account name must be 3-30 alphanumeric characters and cannot start or end with a space" | New account name must be 3-30 alphanumeric characters and cannot start or end with a space | Had to add extra error output when the user's input did not follow regulations |
| | R9T1 | Ensure the new account was saved to the TSF | createacct 1234567 JohnDoe | NEW 1234567 000 000 JohnDoe | NEW 1234567 000 000 JohnDoe | |
| | R10T1 | Confirm to the user that the account was created | createacct 1234567 JohnDoe | Account created Enter next transaction: | Account created Enter next transaction: | |
| | R11T1 | Ensure that the user is in Agent mode | login atm createacct 1234567 JohnDoe | Need privileged mode to Create Account | Need privileged mode to Create Account | |
| | R12T1 | Ensure the account number to be deleted exists already | (7654321 not in accts file) deleteacct 7654321 JaneDoe | The account number to be deleted does not exist | The account number to be deleted does not exist | |

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| Delete acct | R13T1 | Cannot make a deposit on a deleted account | (deleteacct 7654321 JaneDoe) deposit 7654321 10000 | Selected account does not exist | Selected account does not exist | |
| | R13T2 | Cannot make a withdrawal on a deleted account | deleteacct 7654321 JaneDoe) withdraw 7654321 10000 | Selected account does not exist | Selected account does not exist | |
| | R13T3 | Cannot make a transfer on a deleted account | deleteacct 7654321 JaneDoe) transfer 7654321 10000 1234567 OR transfer 1234567 10000 7654321 | Selected account does not exist | Selected account does not exist | |
| | R14T1 | Ensure that the deletion of the account was saved to TSF | deleteacct 7654321 JaneDoe | DEL 000 000 7654321 JaneDoe | DEL 000 000 7654321 JaneDoe | |
| | R15T1 | Confirm to the user that the account was deleted | deleteacct 7654321 JaneDoe | Account deleted Enter next transaction: | Account deleted Enter next transaction: | |
| | R16T1 | Ensure the user is in Agent mode | deleteacct 7654321 JaneDoe | Need privileged mode to Delete Account | Need privileged mode to Delete Account | |
| DEP | R18T1 | Ensure inputted acct number has proper format | deposit 1234 10000 | Selected account does not exist | Selected account does not exist | |
| | R18T2 | Ensure inputted acct number exists in valid accounts list | deposit 1234568 10000 | Selected account does not exist | Selected account does not exist | |
| | R19T1 | Ensure amount is 3-8 decimal digits | deposit 1234567 10 | Please enter correct amount and account number | Please enter correct amount and account number | |
| | R19T2 | ATM mode: reject a | deposit | Selected transaction | Selected transaction | |

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| | | deposit that is larger than 2000\$ | 1234567 200100 | exceeds terminal limit | exceeds terminal limit | |
| | R19T3 | ATM mode: reject a deposit if total transactions on account exceed 5000\$ in this session | deposit 1234567 500100 | Selected transaction exceeds terminal limit | Selected transaction exceeds terminal limit | |
| | R19T4 | Agent mode: no transaction limits | deposit 1234567 99999999 | | DEP 1234567 99999999 0000000 *** | Change was made in check for exceeding amount of transaction to be <= limit, instead of < limit |
| | R20T1 | After successful transaction, add details to the TSF | deposit 1234567 10000 | | DEP 1234567 10000 0000000 *** | |
| WDR | R21T1 | Stop a withdrawal when there are insufficient funds | withdraw 1234567 10000 | | Insufficient funds | |
| | R21T2 | Make sure the withdrawal account exists already | withdraw 1234568 10000 | Selected account does not exist | Selected account does not exist | |
| | R21T3 | ATM mode: can withdraw a maximum of \$1000 | withdraw 1234567 110000 | Selected transaction exceeds terminal limit | Selected transaction exceeds terminal limit | |
| | R22T1 | ATM: Lower daily available funds by right amount after a withdrawal | withdraw 1234567 100000 | | WDR 1234567 100000 0000000 *** | |
| | R22T2 | ATM: Lower daily available funds by right amount after a withdrawal | withdraw 1234567 100000 | | WDR 1234567 100000 0000000 *** | |
| | R22T3 | ATM: Lower daily available funds by right amount after a withdrawal | withdraw 1234567 100000 | | WDR 1234567 100000 0000000 *** | |
| | R22T4 | ATM: Lower daily available funds by right amount after a withdrawal | withdraw 1234567 100000 | | WDR 1234567 100000 0000000 *** | |
| | R22T5 | ATM: Lower daily | withdraw | | WDR 1234567 100000 | |

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| | | available funds by right amount after a withdrawal | 1234567 100000 | | 0000000 *** | |
| | R23T1 | Successful atm withdraw | withdraw 1234567 1000 | | Reached daily maximum transfer limit | |
| | R23T1 | Agent mode: test that there is no limit | withdraw 1234567 99999999 | WDR 0000000 99999999 1234567 *** | WDR 0000000 99999999 1234567 **** | |
| | R24T1 | Agent mode: cannot withdraw more than \$999,999.99 in one session | withdraw 1234567 100000000 | Please enter correct amount and account number | Please enter correct amount and account number | |
| XFR | R25T1 | Reject transfer when from account has insufficient funds | transfer 1000002 1000004 7000 | | Insufficient funds | |
| | R25T2 | Ensure transfer only withdraws from and deposits to existing accounts | transfer 1234567 1234569 1000 OR transfer 1234569 1234567 1000 | Selected account does not exist | Selected account does not exist | |
| | R25T3 | ATM: can only transfer a maximum of \$10,000 | transfer 1234567 1234568 1000001 | Selected transaction exceeds terminal limit | Selected transaction exceeds terminal limit | |
| | R25T4 | ATM: lower daily available total by correct amount after transfer | transfer 1000004 1000005 4000 | | XFR 1000005 4000 1000004 CHAD024 EOS | |
| | R25T5 | ATM: reject transfer after exceeding daily available total | transfer 1000004 1000005 500001 Repeat 2 times | | Error: Selected transaction exceeds daily transaction limit | |
| | R26T1 | Agent: can only transfer a maximum | transfer 1234567 | Please enter correct amount and account | Please enter correct amount and account | |

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| | | of \$999,999.99 | 1234568 100000000 | number | number | |
| | R26T2 | Agent: test that there is no limit by repeatedly making transfers | transfer 1000006 1000002 99999998 Repeat 2 times | | XFR 1000002 99999998 1000006 CHELSEA XFR 1000002 99999998 1000006 CHELSEA EOS | |
| | R27T1 | Ensure account balances after transfer are correct | transfer 1000001 1000002 10000 | | XFR 1000002 10000 1000001 JOHN EOS | |

Notes:

Explanation of tests:

- R5T1: Logging out after logout is not possible in the program. The program will end once logout has been completed, anything after a successful logout will be ignored. This test was not properly executed

Changes to code:

- *Frontend*: added error messages for when there is a format mistake in the account name or number while trying to create an account