Agent Tests

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| **Test** | **Purpose** | **Input** | **Input Files** | **Expected Output** | **Expected Prompts** |
| Agent –login (correct) | check that agent  login is accepted | login  agent  quit | accountList\_empty.txt | - | ap\_li\_cor.txt |
| Agent –logout (correct) | check that agent logout is accepted (and outputs empty file) | login  agent  logout | accountList\_empty.txt | empty.txt | ap\_lo\_cor.txt |
| Agent -create | Check that user is prompted for account number | login  agent  create  quit | accountList\_empty.txt | - | ap\_cr\_qui.txt |
| Agent –create valid num | Check that user is prompted for account number | login  agent  create  1  quit | accountList\_empty.txt | - | ap\_cr\_num.txt |
| Agent – create valid name | Check that user is prompted for next command | login  agent  create  1  abc  quit | accountList\_empty.txt | - | ap\_cr\_nam.txt |
| Agent -create 6 digits | Check that logout updates output file with 6 digits | login  agent  create  123456  fifteen\_digits\_  logout | accountList\_empty.txt | ao\_cr\_num\_xct.txt | ap\_cr\_num\_xct.txt |
| Agent -create <6 digits | Check that create account is accepted, 0s added to account number | login  agent  create  1  fifteen\_digits\_  logout | accountList\_empty.txt | Updated transaction summary file  “04 000001 000000 00000000 fifteen\_digits\_” | Enter new account number:  enter new account name: |
| Agent -create >6 digits | Reject account number with >6 digits | login  agent  create  1234567  quit | accountList\_empty.txt | empty.txt | Enter new account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| Agent -create 6 non digits | Reject account number that is not an int | login  agent  create  1234567  quit | accountList\_empty.txt | empty.txt | Enter new account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| Agent -create negative | Reject account number that is not an int | login  agent  create  -1234  quit | accountList\_empty.txt | empty.txt | Enter new account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| Agent -create decimal | Reject account number that is not an int | login  agent  create  1.234  quit | accountList\_empty.txt | empty.txt | Enter new account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| Agent -create already existing | Reject account number that already exists | login  agent  create  1  quit | Accounts file with 000001 | empty.txt | enter a valid account number:  an account with that number already exists. enter a valid account number: |
| Agent -create <15 chars | Check that create account is accepted, spaces added to account name | login  agent  create  1  one  logout | accountList\_empty.txt | Updated transaction summary file  “04 000001 000000 00000000 one ” | Enter new account number:  enter new account name: |
| Agent -create >15 chars | Reject account name with >15 characters | login  agent  create  1  sixteen\_\_digits\_  quit | accountList\_empty.txt | empty.txt | Enter new account number:  enter new account name:  Account names must be 1-15 characters. enter new account name: |
| **DELETE** |  |  |  |  |  |
| Agent -delete | Check that agent is prompted for account number | login  agent  delete  quit | accountList\_empty.txt | empty.txt | Enter a valid account number: |
| Agent -delete name prompt check | Check that agent is prompted for account name | login  agent  delete  123456  quit | accountList\_empty.txt | empty.txt | Enter a valid account number:  Enter account name: |
| Agent -delete 6 digits | Check that delete account is accepted | login  agent  delete  123456  fifteen\_digits\_  logout | accountList\_empty.txt | Updated transaction summary file  “05 123456 000000 00000000 fifteen\_digits\_” | Enter a valid account number:  Enter account name: |
| Agent -delete <6 digits | Check that delete account is accepted, 0s added to account number | login  agent  delete  1  fifteen\_digits\_  logout | accountList\_empty.txt | Updated transaction summary file  “05 000001 000000 00000000 fifteen\_digits\_” | Enter a valid account number:  Enter account name: |
| Agent -delete >6 digits | Reject account number with >6 digits | login  agent  delete  1234567  quit | accountList\_empty.txt | empty.txt | Enter a valid account number:  Account numbers must be 1-6 digits.  Enter a valid account number: |
| Agent -delete 6 non digits | Reject account number that is not an int | login  agent  delete  seven  quit | accountList\_empty.txt | empty.txt | Enter a valid account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| Agent -delete negative | Reject account number that is not an int | login  agent  delete  -1234  quit | accountList\_empty.txt | empty.txt | Enter a valid account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| Agent -delete decimal | Reject account number that is not an int | login  agent  delete  1.234  quit | accountList\_empty.txt | empty.txt | Enter a valid account number:  Account numbers must be 1-6 digits.  Enter new account number: |
| **DEPOSIT** |  |  |  |  |  |
| Agent -deposit | Check that user is prompted for account number | login  agent  deposit  quit | accountList\_empty.txt | empty.txt | Enter a valid account number: |
| Agent -deposit |  |  |  |  |  |
|  |  |  |  |  |  |
| Agent  -deposit  reasonable | Test if an agent can deposit a reasonable amount | login  agent  deposit  1  99999.00  logout | current accounts file  (000001 on file) | updated transaction summary file | enter a valid account number:  enter an amount to be deposited:  Accepts transaction. |
| Agent  -deposit  out of scope | Test if an agent user can deposit over $999,999.99 | login  agent  deposit  1  1000000.00  logout | current accounts file  (000001 on file) | empty.txt | enter a valid account number:  enter an amount to be deposited:  Rejects amount greater than $999,999.99 |
| Agent  -deposit  zero | Test a redundant deposit | login  agent  deposit  1  0.00  logout | current accounts file  (000001 on file) | Updated transaction summary file | enter a valid account number:  enter an amount to be deposited:  Either accepts or denies transaction based on how we want to handle a 0 input. |
| Agent  -deposit  negative | Test an amount we cannot reproduce | login  agent  deposit  1  -1.00  logout | current accounts file  (000001 on file) | Empty.txt | enter a valid account number:  enter amount to be deposited:  deny transaction of negative amount |
| Agent  -deposit  Invalid account | Test if we try to deposit to an account that doesn’t exist | login  agent  deposit  1  logout | empty accounts file | Empty.txt | enter a valid account number:  reject invalid number |
| Agent  -deposit  immediate logout | Test if we try to deposit and then logout immediately | login  agent  deposit  logout | empty accounts file | Empty.txt | enter a valid account number:  Not a valid command |
| Agent  -withdraw  reasonable | Test the withdraw function on normal conditions | login  agent  withdraw  1  8000.00  logout | current accounts file  (000001 on file) | Updated transaction summary file | enter a valid account number:  enter an amount to be withdrawn:  Accepts transaction. |
| Agent  -withdraw  out of scope | Test the withdraw function with an amount higher than $999,999.99 | login  agent  withdraw  1  1000000.00  logout | current accounts file  (000001 on file) | Empty.txt | enter a valid account number:  enter an amount to be withdrawn:  Denied transaction greater than $999,999.99 |
| Agent  -withdraw  zero | Test a redundant withdrawal | login  agent  withdraw  1  0.00  logout | current accounts file  (000001 on file) | Empty.txt. | enter a valid account number:  enter an amount to be withdrawn:  Can accept or deny, based on how we handle 0 amounts |
| Agent  withdraw  negative | Test an amount we cannot reproduce | login  agent  withdraw  1  -1.00  logout | current accounts file  (000001 on file) | Empty.txt | enter a valid account number:  enter amount to be withdrawn:  deny transaction of negative amount |
| Agent  withdraw  Invalid account | Test if we try to withdraw from an account that doesn’t exist | login  agent  withdraw  1  logout | empty accounts file | Empty.txt | enter a valid account number:  reject invalid number |
| Agent  -withdraw  immediate logout | Test if we try to withdrawal and then logout immediately | login  agent  withdraw  logout | empty accounts file | Empty.txt | enter a valid account number: |
| Agent  -transfer  reasonable | Test a transfer in agent under normal conditions | login  agent  transfer  1  2  800.00  logout | current accounts file  (000001 and 000002 on file) | Updated transaction summary file | enter an account to transfer from:  enter an account to transfer to:  enter an amount to be transferred:  Accepts transaction. |
| Agent  -transfer  out of scope | Test a transfer in agent with an amount greater than $1,000 | login  agent  transfer  1  2  10000.00  logout | current accounts file  (000001 and 000002 on file) | Empty.txt | enter an account to transfer from:  enter an account to transfer to:  enter an amount to be transferred:  Deny amount greater than $1,000 |
| Agent  -transfer  zero | Test a redundant transfer | login  agent  transfer  1  2  0.00  logout | current accounts file  (000001 and 000002 on file) | Empty.txt | enter an account to transfer from:  enter an account to transfer to:  enter an amount to be transferred:  Deny transaction of 0. |
| Agent  -transfer  negative | Test a transfer with a value we can not reproduce | login  agent  transfer  1  2  -1.00  logout | current accounts file (000001 and 000002 on file) | Empty.txt | enter an account to transfer from: enter an account to transfer to:  enter an amount to be transferred:  Deny negative value. |
| Agent  -transfer  from invalid account | Test if we can transfer from a non-existent account | login  agent  transfer  000003  logout | empty accounts file | empty.txt | account to transfer from:  Deny invalid account |
| Agent  -transfer to invalid account | Test if we can transfer to a non-existent account | login  agent  transfer  1  000003  logout | current accounts file  (000001 on file) | empty.txt | account to transfer from:  account to transfer to:  Deny invalid account |
| Agent  -transfer immediate logout | Test the response of logging out while in a transaction | login  agent  transfer  logout | empty accounts file | empty.txt | account to transfer from: |