

## Retail Tests

Test	Purpose	Input	Input Files	Output Files	Output
Retail-Create	Test if retail users are allowed to create accounts.	login retail create logout	current accounts file	empty transaction summary file	Rejection of create command as user does not have access.
Retail-delete	Test if a retail user is allowed to delete accoutns	login retail delete logout	current accounts file	empty transaction summary file	Rejection of delete command as user does not have access.
Retail -deposit reasonable	Test if a retail user can deposit a reasonable amount	login retail deposit 000001 800.00 deposit	current accounts file (000001 on file)	updated transaction summary file	enter a valid account number: enter an amount to be deposited: Accepts transaction.
Retail -deposit out of scope	Test if a retail user can deposit over \$1,000	login retail deposit 000001 10000.00 logout	current accounts file (000001 on file)	empty transaction summary file	enter a valid account number: enter an amount to be deposited: Rejects amount greater than \$1,000
Retail -deposit zero	Test a redundant deposit	login retail deposit 000001 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.
Retail -deposit negative	Test an amount we can not reproduce	login retail deposit 000001 -1.00 logout	current accounts file (000001 on file)	Empty transaction summary file	enter a valid account number: enter amount to be deposited: deny transaction of negative amount
Retail -deposit Invalid account	Test if we try to deposit to an account that doesn't exist	login retail deposit 000001 logout	empty accounts file	Empty transaction summary file	enter a valid account number: reject invalid number
Retail -deposit immediate logout	Test if we try to deposit and then logout immediately	login retail deposit logout	empty accounts file	Empty transaction summary file	enter a valid account number:
Retail -withdraw reasonable	Test the withdraw function on normal conditions	login retail withdraw 000001 800.00 logout	current accounts file (000001 on file)	Updated transaction summary file	enter a valid account number: enter an amount to be withdrawn: Accepts transaction.
Retail -withdraw out of scope	Test the withdraw function with an amount higher than \$1,000	login retail withdraw 000001 10000.00 logout	current accounts file (000001 on file)	Empty transaction summary file	enter a valid account number: enter an amount to be withdrawn: Denied transaction greater than \$1,000

Retail -withdraw zero	Test a redundant withdrawal	login retail withdraw 000001 0.00 logout	current accounts file (000001 on file)	Empty transaction summary file.	enter a valid account number: enter an amount to be withdrawn: Can accept or deny, based on how we handle 0 amounts
Retail withdraw negative	Test an amount we can not reproduce	login retail withdraw 000001 -1.00 logout	current accounts file (000001 on file)	Empty transaction summary file	enter a valid account number: enter amount to be withdrawn: deny transaction of negative amount
Retail withdraw Invalid account	Test if we try to withdraw from an account that doesn't exist	login retail withdraw 000001 logout	empty accounts file	Empty transaction summary file	enter a valid account number: reject invalid number
Retail -withdraw immediate logout	Test if we try to withdrawal and then logout immediately	login retail withdraw logout	empty accounts file	Empty transaction summary file	enter a valid account number:
Retail -transfer reasonable	Test a transfer in retail under normal conditions	login retail transfer 000001 000002 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.

Retail -transfer out of scope	Test a transfer in retail with an amount greater than \$1,000	login retail transfer 000001 000002 10000.00 logout	current accounts file (000001 and 000002 on file)	Empty transaction summary file	enter an account to transfer from: enter an account to transfer to: enter an amount to be transferred: Deny amount greater than \$1,000
Retail -transfer zero	Test a redundant transfer	login retail transfer 000001 000002 0.00 logout	current accounts file (000001 and 000002 on file)	Empty transaction summary file	enter an account to transfer from: enter an account to transfer to: enter an amount to be transferred: Deny transaction of 0.
Retail -transfer negative	Test a transfer with a value we can not reproduce	login retail transfer 000001 000002 -1.00 logout	current accounts file (000001 and 000002 on file)	Empty transaction summary file	enter an account to transfer from: enter an account to transfer to: enter an amount to be transferred: Deny negative value.
Retail -transfer from invalid account	Test if we can transfer from a non-existent account	login retail transfer 000003 logout	empty accounts file	empty transaction summary file	account to transfer from: Deny invalid account

Retail -transfer to invalid account	Test if we can transfer to a non-existent account	login retail transfer 000001 000003 logout	current accounts file (000001 on file)	empty transaction summary file	account to transfer from: account to transfer to: Deny invalid account
Retail -transfer immediate logout	Test the response of logging out while in a transaction	login retail transfer logout	empty accounts file	empty transaction summary file	account to transfer from:

## Agent Tests

Test	Purpose	Input	Input Files	Output Files	Output
Agent login	check that login is accepted	login agent logout	empty current accounts file	empty transaction summary file	None
<b>CREATE</b>					
<b>Logout in middle</b>					
Logout after create	check that nothing is added to summary file	login agent create logout	empty current accounts file	empty transaction summary file	enter a valid account number:
Logout after entering account number	check that nothing is added to summary file	login agent create 000001 logout	empty current accounts file	empty transaction summary file	enter a valid account number: enter valid account name:
Logout after account number already exists	check that nothing is added to summary file	login agent create 000001 logout	accounts file containing 000001	empty transaction summary file	enter a valid account number: an account with that number already exists. enter a valid account number:
Logout after invalid account number (000000)	check that nothing is added to summary file	login agent create 000000 logout	empty current accounts file	empty transaction summary file	enter a valid account number: an account with that number already exists. enter a valid account number:

Logout after invalid account number - string	check that nothing is added to summary file	login agent create 00000a logout	empty current accounts file	empty transaction summary file	enter a valid account number: The account number "00000a" is invalid. Account numbers must be 6 digits. enter a valid account number:
		login agent create 000001 logout			
<b>Privileged Transaction</b>					
Retail Create	Ensure retail cannot create an account	login retail create logout	empty current accounts file	empty transaction summary file	You do not have permission to create an account.
<b>6 Digit Account #</b>					
<b>Account # doesn't exist</b>					
<b>Name is limited to 15 characters</b>					

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## General Tests

Test	Purpose	Input	Input Files	Output Files	Output
Input before login	No command should be accepted before a login	create delete deposit withdraw transfer logout	empty accounts file	empty transaction summary file	Possible prompts to tell user to login first.
Login after login (null)	No other login should be accepted after a login	login login logout	empty accounts file	empty transaction summary file	Request retail or agent mode: Invalid input response.
Login after login (retail)	No other login should be accepted after a login	login retail login logout	empty accounts file	empty transaction summary file	Request retail or agent mode: accept login Invalid input response.
Login after login (agent)	No other login should be accepted after a login	login agent login logout	empty accounts file	empty transaction summary file	Request retail or agent mode: accept login Invalid input response.

## Questions for Prof:

Hi Professor Cordy,

We are working on Cisc 327 Assignment 1 and had a few questions for you:

- 1- Should a logout command always be accepted? For example, if an agent enters "create", they will be prompted for an account number and name. If they type "logout" before entering such information, should they then be logged out? Or forced to enter the account number and name?
- 2- Should the user be forced to enter money values in cents, or will decimals be accepted? For example, if they wish to deposit \$10.75, can they enter either 10.75 or 1075 as the amount? Similarly, if they just enter "10", should that be considered 10 cents or 10 dollars?
- 3- Should deposits, withdrawals, and transfers be accepted for account 000000?
- 4- When referring to an account, if the user enters less than 6 digits, should this be rejected, or do we pad the 0s ourselves? For example, should 123, 0123, 00123 and 000123 all be accepted and refer to the same account?
- 5- In the transaction summary file, is the section AAAAAA andBBBBBB the values for a withdraw or deposit?
- 6- If the user enters valid input with leading or trailing whitespace (or both), should this be accepted?

Thanks,  
Shannon