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		Must be logged in to logout	

Logout	R6T1	Create TSF file on logout	logout	*EOS*	*EOS*	
	R7T1	Verify that TSF corresponds correctly to session activities	logout	*EOS*	*EOS*	Merged with the above test case (R6)
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 JohnDoeeee 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			Merged with below test case (R10)
	R10T1	Confirm to the user that the account was created	createacct 1234567 JohnDoe	Account created Enter next transaction: **In TSF:** *NEW 1234567 000 000 JohnDoe*	Account created Enter next transaction: **In TSF:** *NEW 1234567 000 000 JohnDoe*	
	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	The account number to be deleted does not exist	The account number to be deleted does not exist	

Delete acct			JaneDoe			
	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			Merged with below test case (R15)
	R15T1	Confirm to the user that the account was deleted	deleteacct 7654321 JaneDoe	Account deleted Enter next transaction: In TSF: DEL 000 000 7654321 JaneDoe	Account deleted Enter next transaction: In TSF: DEL 000 000 7654321 JaneDoe	Had to specify in expected output of test case not just "Account deleted" but the next line that is printed to the screen as well ("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	
	R17T1	Ensure inputted acct number has proper format	deposit 1234 10000	The account number to be deleted does not exist	The account number to be deleted does not exist	
	R18T1	Ensure inputted acct number exists in valid accounts list	deposit 1234568 10000	The account number to be deleted does not exist	The account number to be deleted does not exist	

DEP	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 that is larger than 2000$	deposit 1234567 200100	Selected transaction exceeds terminal limit	Selected transaction 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 ****	*DEP 1234567 10000 0000000 ****	
WDR	R21T1	*Stop a withdrawal when there are insufficient funds*	withdraw 1234567 10000			We found that this is a backend functionality that can't be tested yet
	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 ****	

	ID	Description	Input	Expected	Actual	Notes
	R22T4	ATM: Lower daily available funds by right amount after a withdrawal	withdraw 1234567 100000		*WDR 1234567 100000 0000000 ****	
	R22T5	ATM: Lower daily available funds by right amount after a withdrawal	withdraw 1234567 100000		*WDR 1234567 100000 0000000 ****	
	R23T1	Successful atm withdraw	withdraw 1234567 1000		Reached daily maximum transfer limit	
	R24T1	Agent mode: test that there is no limit	withdraw 1234567 99999999	*WDR 0000000 99999999 1234567 ****	*WDR 0000000 99999999 1234567 *****	
	R24T2	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			We found that this is a backend functionality that can't be tested yet
	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		Error: Selected transaction exceeds daily transaction limit	

		500001 (Repeat 2 times)			
R26T1	Agent: can only transfer a maximum of $999,999.99	transfer 1234567 1234568 100000000	Please enter correct amount and account number	Please enter correct amount and account number	
R26T2	Agent: test that there is no limit by repeatedly making transfers	Transfer 1234567 1234568 10000000	Please enter correct amount and account number	Please enter correct amount and account number	
R27T1	Ensure account balances after transfer are correct	transfer 1000001 1000002 10000	XFR 1234568 1000 1234567 ***	XFR 1234568 1000 1234567 ***	

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 using JUnit because of the program termination although was confirmed based on running the program.

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

Description of Test
Testing for this assignment was done using JUnit through Eclipse. The tests can be found in frontendTest.java. The structure of the tests are based off of the template the professor provided in CISC327. Adding onto the provided template, the code has the option to check error outputs and successful outputs depending on what the test is testing. This makes it easier to check successful tests versus failed cases.

Repo: https://github.com/luvitchumber/CISC327-LoaftInc
Tag: v0.3.0 https://github.com/luvitchumber/CISC327-LoaftInc/releases/tag/v0.3.1