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Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
Login constraints							
Can not process transaction before login	login1T1	Idle Logout	Logout before login is invalid	logout	None	error message ask user to login	None
	login1T2	Idle Create account	Create account before login is invalid	createacct	None	error message ask user to login	None
	login1T3	Idle delete account	Delete account before login is invalid	deleteacct	None	error message ask user to login	None
	login1T4	Idle deposit	Deposit before login is invalid	deposit	None	error message ask user to login	None
	login1T5	Idle withdraw	Withdraw before login is invalid	withdraw	None	error message ask user to login	None
	login1T6	Idle transfer	Transfer before login is invalid	transfer	None	error message ask user to login	None
Entering the type of sessions for user	login2T1	Idle machine	Acquiring the demanded session	login machine logout	Valid input file	Select the type of session Messaging user for next transaction	EOS output.txt
	login2T2	Idle agent	Acquiring the demanded session	login agent logout	Valid input file	Select the type of session Messaging user for next transaction	EOS output.txt
Subsequent login Cannot be processed before log out	login3T1	Idle login	Subsequent login attempts	login login logout	Valid input file	error message no subsequent login should be accepted after a login, until after a log out	EOS output.txt
Logout Constraints							
Cannot logout with out being logged in	logout1T1	Idle logout	Logout with out login	logout	None	error message should only be accepted when logged in	None
Log out operation	logout2T1	Machine logout	Logout with machine mode	login machine logout	Valid input file	Transaction Summary file created	EOS
	logout2T2	Agent logout	Logout with agent mode	login agent logout	Valid input file	Transaction Summary file created	EOS
Post machine Log out operation	logout3T1	Idle delete account		login machine logout deleteacct	Valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle create account		login machine logout createacct	valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle deposit		login machine logout deposit	valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle withdraw		login machine logout deleteacct withdraw	valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle transfer	Other transactions after Logout	login machine logout deleteacct transfer	valid input file	error message no transaction other than login should be accepted after a logout	EOS
Post agent Log out operation	logout3T1	Idle delete account		login agent logout deleteacct	Valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle create account		login agent logout createacct	valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle deposit		login agent logout deposit	valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle withdraw		login agent logout deleteacct withdraw	valid input file	error message no transaction other than login should be accepted after a logout	EOS
	logout3T2	Idle transfer		login agent logout deleteacct transfer	valid input file	error message no transaction other than login should be accepted after a logout	EOS
creatACCOUNT	creatACCOUNT	creatACCOUNT	creatACCOUNT	creatACCOUNT	creatACCOUNT	creatACCOUNT	creatACCOUNT
Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
	R1T1	IDLE privilged transcation in machine mode	cannot be accepted when the user is in machine model	login machine mode createaccount	valid list file	error prompt for user to switch mode	None
	R1T2	IDLE privilged transcation in agent mode	sucessfully accepted	login agent mode createaccount	valid list file	prompt for user to proceed to next step	None
	R2T1	IDLE input account number	the account number is accepted	login agent mode createaccount 1234567	valid list file	prompt for user to input account name	None
	R2T2	IDLE input account number	cannot create account number which is same as other account numbers	login agent mode createaccount 4423424 logout	valid list file	error prompt for user to create account	EOS
	R3T1	IDLE input account name	cannot create account name less than 3 characters	login agent mode createaccount input account number: 1234567 input account name:A logout	None	error prompt for user to input valid account name	EOS
- create a new account - should ask for the new account number and name (as text lines) - should save these for the transaction summary file, but no transactions on the new account should be accepted	R3T2	IDLE input account name	cannot create account name more than 30 characters	login agent mode createaccount input account number: 1234567 input account name: ASDDFSGDHGFHFHTNT NTYNHDFGSDGS logout	None	error prompt for user to input valid account name	EOS

Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
	R3T3	IDLE input account name	cannot create account name begins with a space	login agent mode createaccount input account number: 1234567 input account name:_DSA logout	None	error prompt for user to input valid account name	EOS
	R3T4	IDLE input account name	cannot create account name ends with a space	login agent mode createaccount input account number: 1234567 input account name:DSA_ logout	None	error prompt for user to input valid account name	EOS
	R3T5	IDLE input account name	the account name is accepted	login agent mode createaccount input account number: 1234567 input account name:ABCD logout	None	inform the user that the account is succesfully created	NEW 1234567 000 0000000 ABCD EOS

Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
- delete an existing account - should ask for the account number and account name (as text lines) - should check that the account number is valid, and save the account number and name in the transaction summary file	R1T1	IDLE delete account	cannot proceed for the user is not in agent mode	login input account number: 1234567 input account name:ABCD machine mode delete account logout	valid list file	error prompt for user to switch mode	EOS
	R1T2	IDLE delete account	sucessfully proceed to next step	login input account number: 1234567 input account name:ABCD agent mode delete account logout	valid list file	info the user to input account number and name	EOS
	R2T1	IDLE input account number	cannot proceed for the number is not valid(doesn't exist)	login input account number: 1234567 input account name:ABCD agent mode delete account input account number: 3123123124 logout	valid list file	error prompt for user to input valid account number	EOS
	R2T2	IDLE input account number	sucessfully proceed to next step	login input account number: 1234567 input account name:ABCD agent mode delete account input account number: 1234567 logout	valid list file	inform the user to input the account name	EOS
	R3T1	IDLE input account name	cannot proceed for the name is not valid(doesn't exist)	login input account number: 1234567 input account name:ABCD agent mode delete account input account number: 1234567 input account name: dasdafaf logout	valid list file	error prompt for user to input valid account name	EOS
	R3T2	IDLE input account name	sucessfully deleted the target account	login input account number: 1234567 input account name:ABCD agent mode delete account input account number: 1234567 input account name:ABCD logout	valid list file	inform the user that the target account is successfully deleted	DEL 1234567 000 0000000 ABCD EOS

deposit

Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
deposit can work in both agent and machine mode	depositR1T1		deposit can work in agent mode	login agent deposit logout	valid input file with no accounts	prompt user for account number	EOS
	depositR1T2		deposit can work in machine mode	login machine deposit logout	valid input file with no accounts	prompt user for account number	EOS
deposit asks for the account number and amount to be deposited	depositR2T1	Test deposit in both mode	deposit can work as expected	login machine/agent deposit logout	valid input file with at least 1 account	prompt user for account number	EOS
	depositR2T2		deposit can work as expected after account number is provided	login machine/agent deposit 1234567 logout	valid input file with at least 1 account	promt user for account number prompt user for amount to be deposited	EOS
should check the account number is valid	depositR3T1	Test for account number	check the account is valid (too few digits)	login machine/agent deposit 111111 logout	valid input file with at least 1 account	promt user for account number Messaging user that is an invalid account	EOS
	depositR3T2		check the account is valid (too many digits)	login machine/agent deposit 22222222 logout	valid input file with at least 1 account	promt user for account number Messaging user that is an invalid account	EOS
	depositR3T3		check the account is valid (starts with 0)	login machine/agent deposit 0123456 logout	valid input file with at least 1 account	promt user for account number Messaging user that is an invalid account	EOS
	depositR3T4		check the account is valid (assume 1234567 exists and same for cases below)	login machine/agent deposit 1234567 logout	valid input file with at least 1 account	promt user for account number prompt user for amount	EOS
	depositR4T1	amount check	check the amount is valid	login agent deposit 1234567 100000000(exceeded maximum in this case) logout	valid input file with at least 1 account	promt user for account number prompt user for amount Messaging user that is an invalid amount	EOS

Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
		in agent mode	check the amount is valid				
	depositR4T2			login agent deposit 1234567 10000 logout	valid input file with at least 1 account	promt user for account number / promt user for amount / Messaging user that transaction is completed	DEP 1234567 10000 0000000 *** EOS
should check the amount is valid	depositR4T3			login machine deposit 1234567 200100 logout	valid input file with at least 1 account	promt user for account number / promt user for amount / Messaging user that is an invalid amount	EOS
	depositR4T4	amount check in machine mode	check the amount is valid	login machine deposit 1234567 200000 (not exceeding daily limit) logout	valid input file with at least 1 account	promt user for account number / promt user for amount / Messaging user that transaction is completed	DEP 1234567 200000 0000000 *** EOS
	depositR4T5			login machine deposit 1234567 100 (have reached daily limit already) logout	valid input file with at least 1 account	promt user for account number / promt user for amount / Messaging user that this account reached daily limit	

withdraw

Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles
withdraw can work in both agent and machine mode	withdrawR1T1		withdraw can work in agent mode	login agent withdraw logout	valid input file with no accounts	prompt user for account number	EOS
	withdrawR1T2		withdraw can work in machine mode	login machine withdraw logout	valid input file with no accounts	prompt user for account number	EOS
withdraw asks for account number and amount to withdraw	withdrawR2T1	withdraw from account	withdraw can work as expected	login machine/agent withdraw logout	valid input file with at least 1 account	prompt user for account number	EOS
	withdrawR2T2		withdraw can work as expected after account number is provided	login machine/agent withdraw 1234567 logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount to be withdrawn	EOS
should check the account number is valid	withdrawR3T1			login machine/agent withdraw 111111 logout	valid input file with at least 1 account	prompt user for account number / Messaging user that is an invalid account	EOS
	withdrawR3T2			login machine/agent withdraw 22222222 logout	valid input file with at least 1 account	prompt user for account number / Messaging user that is an invalid account	EOS
	withdrawR3T3	test for account number	check the account is valid	login machine/agent withdraw 0123456 logout	valid input file with at least 1 account	prompt user for account number / Messaging user that is an invalid account	EOS
	withdrawR3T4			login machine/agent withdraw 1234567 logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount	EOS
	withdrawR4T1	amount check in agent mode	check the amount is valid	login agent withdraw 1234567 100000000(exceeded maximum in this case) logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount / Messaging user that is an invalid amount	EOS
	withdrawR4T2			login agent withdraw 1234567 10000 logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount / Messaging user that transaction is completed	WDR 1234567 10000 0000000 *** EOS
should check the amount is valid	withdrawR4T3			login machine withdraw 1234567 100100 logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount / Messaging user that is an invalid amount	EOS
	withdrawR4T4	amount check in machine mode	check the amount is valid	login machine withdraw 1234567 100000 (not exceeding daily limit) logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount / Messaging user that transaction is completed	WDR 1234567 100000 0000000 *** EOS
	withdrawR4T5			login machine withdraw 1234567 100000(have reached daily limit of withdraw) logout	valid input file with at least 1 account	prompt user for account number / prompt user for amount / Messaging user that this account reached daily limit	EOS

trsanfer	trsanfer	trsanfer	trsanfer	trsanfer	trsanfer	trsanfer	trsanfer
Requirement	Test NO.	Test Name	Purpose	Input	InputFiles	Output	OutputFiles

-should ask for the from account number ,the to account number ans the amount to tansfer -check that the account numbers is valid	Transfer1T1	IDLE transfer from account number	cannot transfer for invalid from account number (not exist)	login machine transfer 1234567 logout	an account list with at least 2 valid account	error prompt for user the from account number is not exist	EOS
	Transfer1T2	IDLE transfer from account number	cannot transfer for invalid from account number (too short)	login machine transfer 123456	none	error prompt for user the from account number is invalid because it is too short	EOS
	Transfer1T3	IDLE transfer from account number	cannot transfer for invalid from account number (start with 0)	login machine transfer 0123456 logout	none	error prompt for user the from account number is invalid because it starts with 0	EOS
	Transfer1T2	IDLE transfer to account number	cannot transfer for invalid to account number (not exist)	login machine transfer 1000327 1234567 logout	an account list with at least 2 valid accoun	error prompt for user the to account number is not exist	EOS
	Transfer1T3	IDLE transfer to account number	cannot transfer for invalid to account number (too short)	login machine transfer 1000327 12345 logout	none	error prompt for user the from account number is invalid because it is too short	EOS
	Transfer1T4	IDLE transfer to account number	cannot transfer for invalid to account number (starts with 0)	login machine transfer 1000327 0123456 logout	none	error prompt for user the to account number is invalid because it starts with 0	EOS
-check the transfer amount is valid	Transfer1T5	IDLE transfer machine over limit	cannot transfer for invalid amount of money (more than 10000 in machine mode)	login machine transfer 1000327 1000223 10001 logout	none	reject prompt for user the amount is invalid because it 's more than 1000$ which need to go to the agent	EOS
	Transfer1T6	IDLE transfer agent over limit	cannot transfer for invalid amount of money (more than maximum limit in agent mode)	login agent transfer 1000327 1000223 100000000 logout	none	reject prompt for user the amount is invalid because it 's more than 999,999,999$	EOS
-	TransferT7	IDLE transfer works in agent mode	transfer accepted	login agent transfer 1000327 1000223 1000 logout	none	message telling the user that transfer succeed	XFR 1000327 1000 1000223 NNNN EOS
	TransferT8	IDLE transfer works in machine mode	transfer accepted	login machine transfer 1000327 1000223 1000 logout	none	message telling the user that transfer succeed	XFR 1000327 1000 1000223 NNNN EOS