CSCI 3060U/SOFE 3980U
Course Project Assignment #3: Front End Requirements Testing
Team name: Untitled

Albert Fung 100520898
Karan Chandwaney 100472699
Calvin Lo 100514352

Test Case	What they are intended to test	Nature of failure	Error in the code	Actions taken to fix it
loginlogout				
01_loginlogout_std_session	Test if session asks for account holder's name in a standard session	test case output file and transaction file missing informations	None	changed output file to reflect correct output changed the input file to correct the account name changed the trans file account number from 00001 to 00000
02_loginlogout_begin_transactions	Test if the session reads in current bank account file and accepts transactions after kind and name are accepted	test case output file and transaction file missing informations the test case trans file have the logged the transaction that did not complete successfully	missing method to check if the input is equal to transaction name or not.	changed output file to reflect correct output changed the input file to correct account name changed the trans file account number from 00001 to 00000 added

				isTransaction()
				check if the input is transaction every time the program read command changed the trans file to correct transaction
03_loginlogout_not_logged_in	Test if other transactions are accepted when user is not logged in and logout transaction is only accepted when logged into a session	test case output file and transaction file missing informations does not create transaction file in some cases	missing for writing an empty transaction file when not logged in	create a new method a FileWriter that create a new File create the file once the session start
04_loginlogout_subsequent_login	Test if subsequent logins are accepted when user is not logged out	test case output file and transaction file missing informations the test case trans file have the logged the transaction that did not complete successfully	while login into a non exist account name, the program still record as logged in	changed output file to reflect correct output changed the login mode to 'N' if the account name is not valid changed the trans file to correct transaction
05_loginlogout_unprivileged	Test if only unprivileged transactions are accepted after standard login	test case output file and transaction file missing informations the test case trans file have the logged the transaction that did not complete successfully	None	changed output file to reflect correct output changed the trans file to correct transaction

06_loginlogout_privileged_transactions	Test if after admin is logged in, all transactions are accepted	test case output file and transaction file missing informations the test case trans file have the logged the transaction that did not complete successfully	None	changed output file to reflect correct output changed the trans file to correct transaction
07_loginlogout_disabled_account	Test if the session can login to a disabled account but cannot do any transaction	Not a needed test case, login did not check for disable account or not	None	deleted test case.
08_loginlogout_logged_out	Test if bank account transaction file is updated correctly	test case output file and transaction file missing informations the test case trans file have the logged the transaction that did not complete successfully	None	changed output file to reflect correct output changed the trans file to correct transaction
09_loginlogout_logged_out_transactions	Test if the session stops accepting any transactions except login	test case output file and transaction file missing informations the test case trans file have the logged the transaction that did not complete successfully does not change input type	the input type keep as "file input" after reading all the rows	changed output file to reflect correct output changed the trans file to correct transaction change the input type to terminal when reached last row

withdrawal				
01_withdrawal_prompt	Test if the session ask for account holder's name if logged in as admin	test case input file and output file missing prompts and information incorrect input some output prompts missing	none	corrected grammatical errors
02_withdrawal_acc_name_validation	Test if the bank account is a valid account for the account holder currently logged in	test case input file and output file missing prompts and information incorrect input some output prompts missing	did not check if the account name and number match	changed output file to reflect changes changed input file to reflect changes corrected grammatical errors
03_withdrawal_acc_num	Test if the session ask for account number	test case input file and output file missing prompts and information incorrect input some output prompts missing	none	corrected grammatical errors
04_withdrawal_namenum	Test if the session only allow account holder name and account number entered in admin	test case input file and output file missing prompts and information incorrect input	did not check if account name and number match	changed output file to reflect changes changed input file to reflect changes

	mode matched. If not matched, the login should be rejected	some output prompts missing		corrected grammatical errors
05_withdrawal_mo ney	Test if session ask for the amount to withdraw	test case input file and output file missing prompts and information incorrect input some output prompts missing	none	corrected grammatical errors
06_withdrawal_for matvalidation	Test if session only allow the amount format in ####.## where # is 0-9	test case input file and output file missing prompts and information incorrect input some output prompts missing	did not check if the amount format in ####.## or not	changed output file to reflect changes changed input file to reflect changes corrected grammatical errors
07_withdrawal_std mode	Test if the amount to withdraw in standard mode can only be less or equal than $500.00	test case input file and output file missing prompts and information incorrect input some output prompts missing	did not check condition	changed output file to reflect changes changed input file to reflect changes corrected grammatical errors
08_withdrawal_ad minmode	Test if the amount to withdraw in admin mode can be unlimited (over	test case input file and output file missing prompts and information	did not check condition	changed output file to reflect changes changed input file to reflect

	$500.00)	incorrect input some output prompts missing		changes corrected grammatical errors
09_withdrawal_ac cbalancevalid	Test if the amount to withdraw must be higher or equal than the account balance	test case input file and output file missing prompts and information	none	corrected grammatical errors
10_withdrawal_div by5	Test if withdrawal amount is divisible by 5, and reject request otherwise	test case input file and output file missing prompts and information incorrect input some output prompts missing	did not check condition	changed output file to reflect changes changed input file to reflect changes corrected grammatical errors
11_withdrawal_SP _transaction_fee	Test if the withdrawal amount is balance + 5 cent in student plan. (If the balance is $400.00, withdraw $400 is rejected)	test case input file and output file missing prompts and information incorrect input some output prompts missing	none	corrected grammatical errors
12_withdrawal_NP _transaction_fee	Test if withdrawal amount is balance + 10 cent in non-student plan. (if the balance is $400, withdraw $400 is rejected)	test case input file and output file missing prompts and information incorrect input some output prompts missing	none	corrected grammatical errors

transfer				
01_transfer_promp t	Test if the session prompts for the account holder's name when logged in as admin	test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction
02_transfer_origin accnum	Test if the session prompts for the account number that the money will be coming from	test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction
03_transfer_origin accnamenum	Test if the session only allow account holder name and origin account number entered in admin mode matched. If not matched, the login should be rejected	test case output file and transaction file missing informations incorrect input did not check for condition	did not check if account number and name match or not	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction added code to check if account number and name match or not
04_transfer_desta ccnum	Test if the session prompts for the account number that	test case output file and transaction file missing informations	None	changed input file to test the intention

	the money will be going to	incorrect input		changed output file to reflect correct output

changed the trans file to correct transaction |
| 05_transfer_desta mt | Test if the session prompts for the amount to transfer | test case output file and transaction file missing informations

incorrect input | None | changed input file to test the intention

changed output file to reflect correct output

changed the trans file to correct transaction |
| 06_transfer_desta mtformat | Test if session only allow the amount format in ####.## where # is 0-9 | test case output file and transaction file missing informations

incorrect input

did not check for condition | did not check for amount format | changed input file to test the intention

changed output file to reflect correct output

changed the trans file to correct transaction

used method isCorrectFormat to check if the format is correct or not |
| 07_transfer_destv alidaccnum | Test if the session asks for a valid account number where the money will be going to | test case output file and transaction file missing informations

incorrect input

did not check for condition | did not check for a valid account number where the money will be going to | changed input file to test the intention

changed output file to reflect correct output

changed the trans file to correct transaction |

				added code to check the number is valid or not
08_transfer_origin validaccnum	Test if the session asks for a valid account number where the money will be coming from	test case output file and transaction file missing informations

incorrect input

did not check for condition | did not check for a valid account number where the money will coming from | changed input file to test the intention

changed output file to reflect correct output

changed the trans file to correct transaction

added code to check the number is valid or not

added code to find the account name of the money go to |
| 09_transfer_stdma xtransfer | Test if the amount of funds in the current session that can be transferred does not exceed $1000.00 in standard mode | test case output file and transaction file missing informations

incorrect input

did not check for condition | did not check for the amount cannot exceed $1000.00 | changed input file to test the intention

changed output file to reflect correct output

changed the trans file to correct transaction

added code to check if the amount exceed $1000.00 or not |
| 10_transfer_posttr ansfer | Test if the account balance of both accounts are at least $0.00 after transfer | test case output file and transaction file missing informations

incorrect input | did not check if the balance are at least $0 or not | changed input file to test the intention

changed output file to reflect correct output |

		did not check for condition		changed the trans file to correct transaction added code to check if the balance are at least $0 or not
11_transfer_SP_transaction_fee	Test if the transfer amount is balance + 5 cent in student plan. (If the balance is $400.00, transfer $400 is rejected)	test case output file and transaction file missing informations incorrect input did not check for condition	did not check if the transfer amount is balance + 5 cent in the student plan	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction added code to check if the transfer amount is balance + 5 cent in the student plan
12_transfer_NP_transaction_fee	Test if the transfer amount is balance + 10 cent in non-student plan. (if the balance is $400, transfer $400 is rejected)	test case output file and transaction file missing informations incorrect input did not check for condition	did not check if the transfer amount is balance + 10 cent in the non student plan	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction added code to check if the transfer amount is balance + 10 cent in the non student plan
13_transfer_disabled	Test if the transfer goes through to a disabled account.	test case output file and transaction file missing informations	did not check if transaction is success or not in a disabled	changed input file to test the intention

			account	changed output file to reflect correct output changed the trans file to correct transaction added code to check if transaction is success or not in a disabled account
		incorrect input did not check for condition		
paybill				
01_paybill_accname	Test if session asks for account holder's name when logged in as admin	test case output file and transaction file missing informations incorrect input did not check for condition	did not check for valid name	changed output file to reflect correct output changed code to make use of the new functions that verify the bank account holder changed default valid name to false
02_paybill_accnum	Test if session asks for account number	test case output file and transaction file missing informations incorrect input did not check for condition	did not check for valid number	changed output file to reflect correct output changed code to make use of the new functions that verify the bank account number are valid changed default valid number to false changed the trans file to correct transaction
03_paybill_accnameandnum	Test if the session only allow account	test case output file and transaction file missing	did not check for match account name and	changed input file to test the intention

		informations	number	changed output file to reflect correct output
	holder name and account number entered in admin mode matched. If not matched, the login rejected	incorrect input did not check for condition		changed code to make use of the new functions that verify the bank account number and account holder name are match changed the trans file to correct transaction
04_paybill_compa nyname	Test if session asks for company name to whom bill is being paid	test case output file and transaction file missing informations incorrect input	None	changed output file to reflect correct output changed input file to test the intention changed the trans file to correct transaction
05_paybill_compa nyamt	Test if session asks for amount to be paid to company	test case output file and transaction file missing informations incorrect input	None	changed output file to reflect correct output changed input file to test the intention changed the trans file to correct transaction
06_paybill_amtfor mat	Test if session only allow the amount format in ####.## where # is 0-9	test case output file and transaction file missing informations incorrect input	code did not check for the format	changed output file to reflect correct output changed input file to test the intention

| | | | | changed the trans file to correct transaction

create a new method isCorrectFormat() to check the format

include regex library to header file |
|---|---|---|---|---|
| 07_paybill_validac cnum | Test if account number **does not** matches customer's name | test case output file and transaction file missing informations

incorrect input | None | changed input file to test the intention

changed output file to reflect correct output

changed input file to test the "not match" account number

changed the trans file to correct transaction |
| 08_paybill_validco mpany | Test is bill is being paid to a valid company - EC, CQ or TV | test case output file and transaction file missing informations

incorrect input

did not check for condition | did not check the input company name equal to valid company | changed input file to test the intention

changed output file to reflect correct output

changed the trans file to correct transaction

added method to check the valid company |
| 09_paybill_stdmax amt | Test if bill payment amount in current | test case output file and transaction file missing | did not check the amount is below $2000 | changed input file to test the intention |

	session does not exceed $2000.00 in standard mode	informations incorrect input did not check for condition		changed output file to reflect correct output changed the trans file to correct transaction added method to check the amout is below $2000
10_paybill_post	Test is the account balance is at least $0.00 after bill is paid	test case output file and transaction file missing informations incorrect input did not check for condition	did not check the account balance is at least $0.00 after bill is paid	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction added method to check the amount is at least $0 after bill is paid
11_paybill_SP_transaction_fee	Test if the paybill amount is balance + 5 cent in student plan. (If the balance is $400.00, pay $400 bill is rejected)	test case output file and transaction file missing informations incorrect input did not check for condition	did not check the account balance + $0.05 in student plan	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction create a new method enoughTransactionFee() to check the balance

12_paybill_NP_transacation_fee	Test if paybill amount is balance + 10 cent in non-student plan. (if the balance is $400, pay $400 bill is rejected)	test case output file and transaction file missing informations incorrect input did not check for condition	did not check the account balance + $0.10 in non student plan	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction used the new method enoughTransactionFee() to check the balance
deposit				
01_deposit_accholdernameprompt	Test if session asks for account holder's name when logged in as admin	test case output file and transaction file missing informations incorrect input	wrong order of prompting	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction changed the order of asking information
02_deposit_accnumprompt	Test if session asks for account number	test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output print out a message amount the deposit account number entered

				changed the trans file to correct transaction
03_deposit_acc_name_num_match	Test if the session only allow account holder name and account number entered in admin mode matched. If not matched, the login should be rejected	test case output file and transaction file missing informations incorrect input did not check for condition	the valid account number setted initialize as true did not check if the account name and number match or not	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction changed the initial value of valid account number to false added method to check for matching account name and number
04_deposit_amt	Test if session asks for the amount to be deposited	test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction
05_deposit_amtformatvalid	Test if session only allow the amount format in ####.## where # is 0-9	test case output file and transaction file missing informations incorrect input did not check for condition	valid account number setted initialize as true did not check if the amount format in ####.## or not	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction

				changed the initial value of valid amount to false added method to check for matching account name and number
06_deposit_valida_cc	Test if the account is valid for the account holder that is logged in	tested in 03_deposit_acc_name_num_match	None	None
07_deposit_SP_transaction_fee	Test if the deposit amount had - the transaction fee 5 cent in student plan. (If the deposit is $400.00, the final deposit amount will be $399.95)	test case output file and transaction file missing informations incorrect input did not check for condition	valid account number setted initialize as true did not check if the amount format in ####.## or not	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction create a new method minusTransactionFee() to minus the transaction fee included <iomanip> to convert float to string with precision added method to make sure the amount after minus the transaction fee is created than 0
08_deposit_NP_transaction_fee	Test if deposit amount had - the	test case output file and transaction file missing	valid account number setted initialize as true	changed input file to test the intention

	transaction fee 10 cent in non-student plan. (if the deposit is $400, the final deposit amount will be $399.90)	informations incorrect input did not check for condition	did not check if the amount format in ####.## or not	changed output file to reflect correct output changed the trans file to correct transaction
09_deposit_same_day_usage	Test if the funds are not available for use in same day	Need to test with withdrawal	None	None
10_deposit_accepted_amt	Test if deposit amount is divisible by 5, and reject request otherwise	test case output file and transaction file missing informations incorrect input did not check for condition	did not check if the amount is divisible or not	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction create a new method minusTransactionFee() to minus the transaction fee
create				
01_create_valid_new_acc_name	Test if session asks for new account holder name, and truncates name if characters exceed 20	test case output file and transaction file missing informations incorrect input did not check condition	did not check if name exceed 20 characters	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction

				create a new method fixName() to truncates name if exceed 20 characters and fill in space if under 20 characters
02_create_initbal	Test if session asks for initial balance of account	test case output file and transaction file missing informations incorrect input did not ask for information	did not ask for initial balance	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction add code to ask for initial balance and store it
03_create_record_ transaction_file	Test if session successfully records new account information to bank account transaction file	test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction
04_create_test_ad min_mode	Test if creation of account only accepted while logged in as admin	test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction

05_create_unique_account_num	Test if new account number does not already exist in Bank System database, and reject if exists	test case output file and transaction file missing informations incorrect input did not create information	ask for an account number instead of create a random number	changed input file to test the intention there should be any cases that account number is already exist changed output file to reflect correct output changed the trans file to correct transaction added code to create a random account number that is unique
06_create_max_acc_bal	Test if creation of account is rejected if account balance is over $99999.99	test case output file and transaction file missing informations incorrect input did not check condition	did not check if the initial amount is over $99999.99 or not	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction added method to check if the amount is over $99999.99 or not added method to check if the entered amount in this #####.##
07_create_end_session	Test if account logged out after account creation and session restricts further transactions	test case output file and transaction file missing informations incorrect input		changed input file to test the intention (added login to newly create account after logout) changed output file to reflect correct output

				changed the trans file to correct transaction
08_create_truncate_long_acc_name	Test if account name is truncated if it is greater than 20 characters	already fixed in 01_create_valid_new_acc_name test case output file and transaction file missing informations incorrect input	None	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction
09_create_default_acc_type	Test if account type is set to non-student plan as default	test case output file and transaction file missing informations incorrect input did not set information	did not set account type to non-student plan	changed input file to test the intention changed output file to reflect correct output changed the trans file to correct transaction added code to set the account type to non-student
delete				
01_delete_admin_mode	Test if the delete transaction is accepted when logged into admin mode and prompt for account name and number	input file, output file missing prompts and inputs	did not search bank accounts file for account name and number, to verify if it exists	changed input file to reflect changes changed output file to reflect changes added method to main code to search bank accounts file

				fixed grammatical errors
02_delete_standard_mode	Test if the delete transaction is rejected when logged into standard mode and doesn't prompt for account name and number	input file, output file missing prompts and inputs	none	fixed grammatical errors
03_delete_valid	Test if the delete transaction is accepted when entered a valid holder's name in admin mode with valid account name and number and saved to bank account transaction file	input file, output file missing prompts and inputs TransactionProcessing.cpp missing code	did not search bank accounts file for account name and number, to verify if it exists	changed input file to reflect changes changed output file to reflect changes added method to main code to search bank accounts file fixed grammatical errors
04_delete_invalid_name	Test if the delete transaction is rejected when entered an invalid holder's name in admin mode	input file, output file missing prompts and inputs	did not search bank accounts file for account name and number, to verify if it exists	changed input file to reflect changes changed output file to reflect changes added method to main code to search bank accounts file fixed grammatical errors
05_delete_invalid_number	Test if the delete transaction is	input file, output file missing prompts and	did not search bank accounts file for	changed input file to reflect changes

	rejected when entered an invalid account number in admin mode	inputs	account name and number, to verify if it exists	changed output file to reflect changes added method to main code to search bank accounts file fixed grammatical errors
06_delete_further_trans	Test if further transactions are not accepted on a deleted account	input file, output file missing prompts and inputs	none	fixed grammatical errors
07_delete_disable	Test if a disabled account can be deleted in admin mode and saved to bank account transaction file	input file, output file missing prompts and inputs	none	fixed grammatical errors
disable				
01_disable_admin_mode	Test if the disable is accepted when logged into admin mode and prompt for account name and number	input file, code had wrong if condition statements	changed code to make use of new functions that verify if bank account holder and bank account number are valid changed code when checking the condition of the account, success and failure were reversed	changed code and input file format

			changed code to correct grammar and keep variable names consistent	
02_disable_standard_mode	Test if the disable is rejected when logged into standard mode and doesn't prompt for account name and number	input file, output file	none	grammatical errors corrected in input file
03_disable_status_changed	Test if the status changed from active to disabled in admin mode with valid account name and number and saved to bank account transaction file	input file, output file	none	grammatical errors corrected in input file
04_disable_invalid_name	Test if the disable transaction is rejected when entered an invalid holder's name in admin mode	input file, output file	none	grammatical errors corrected in input file
05_disable_invalid_number	Test if the disable transaction is rejected when entered an invalid account number in admin mode	input file, output file	none	grammatical errors corrected in input file
06_disble_further_	Test if further	input file, output file	none	grammatical errors corrected in

trans	transactions are not accepted on a disabled account			input file
07_disable_disabled_account	Test if the disable transaction is rejected when entered an disabled account number in admin mode	input file, output file	none	grammatical errors corrected in input file
08_disable_recent_disabled_account	Test if further transaction are not accepted on a recent disabled account in same session.	input file, output file	none	grammatical errors corrected in input file
changeplan				
01_changeplan_admin_mode	Test if the changeplan transaction is accepted when logged into admin mode and prompt for account name and number	input file, output file and transaction file	code changed to produce correct transaction file, changed prompts in code to match expected outputs	changed input file to provide correct input to the system
02_changeplan_standard_mode	Test if the changeplan transaction is rejected when logged into standard mode and doesn't prompt for account	input file, output file and transaction file	none	changed input file to provide correct input to the system

	name and number			
03_changeplan_SP_to_NP	Test if session is successfully able to change plan from SP to SN and saved to bank account transaction file in admin mode	input file, output file	added if statement to detect non student and student account numbers	changed output file to reflect correct output
04_changeplan_NP_to_SP	Test if session is successfully able to change plan from NP to SP and saved to bank account transaction file admin mode	input file, output file, transaction file	none	changed input and output file to reflect correct output
05_changeplan_invalid_name	Test if the changeplan transaction is rejected when entered an invalid holder's name in admin mode	input file, code	implemented 2 new functions to search the bank accounts file to verify name	changed input file to reflect capitalization of input user
06_changeplan_invalid_number	Test if the changeplan transaction is rejected when entered an invalid account number in admin mode	input file	changed spacing of concatenating strings and variables	changed input file to reflect correct formatting
enable				

01_enable_admin_mode	Test if enabling of account accepted while logged in as admin and prompt for account name and number	input file, code had wrong if condition statements	changed code to make use of the new functions that verify the bank account holder and bank account number are valid changed code when checking the condition of the account, success and failure were reversed changed code to correct grammar	changed code and input file format
02_enable_standard_mode	Test if enabling of account rejected while logged in as standard user and doesn't prompt for account name and number	input file	none	input file changed with capital account holder names
03_enable_status_changed	Test if session successfully changes account from disabled (D) to active (A) with valid account name and number and saved to bank account transaction file	input file	none	input file changed with capital account holder names
04_enable_invalid_name	Test if the enable transaction is	input file	changed to reflect correct spacing when	input file changed with capital account holder names

	rejected when entered an invalid holder's name in admin mode		concatenating strings	
05_enable_invalid _number	Test if the enable transaction is rejected when entered an invalid account number in admin mode	input file	changed to reflect correct spacing when concatenating strings	input file changed with capital account holder names
06_enable_enable d_account	Test if the enable transaction is rejected when enable an enabled account in admin mode.	input file		input file changed with capital account holder names