ASSIGNMENT 3 TEST REPORT CISC327 GROUP 13 (SPICE TESTS)

Note:

Many of the tests did not run initially due to small things such as inconsistent new lines. We fixed all the little issues and inconsistencies and then ran our first test. The second run of the test program was run after we ensured all of our input files were correct leaving us with only bugs in the code. All bugs were fixed and the test program was run once more with all successes.

To run tests:

You must have java installed on your linux system run java -h to check if it is installed

QIES can be built, or you can use the provided .class files.
To build QUIES navigate to ./src/ directory and execute:
javac QIESBase.java -d ../bin/

To run QIES navigate to ./build/ directory and execute: java -cp ../bin "QIESBase" "vsf.txt"

Once java is installed, and QIES is built...

you may simply run ./tests/run_tests.sh and the tests will automatically be run using the class files found in the /build/ directory. The outputs of the console and the TXN summary file from the ./tests/output/ and ./tests/expected/ are used for comparison.

On SUCCESS

Under the test name header SUCCESS will be displayed This means console and txn summary files are matching

On FAIL

A detailed report of the console output as well as differences between the txnsummary and console log are displayed.

On COMPLETE

Counters of tests passed and tests failed are displayed

FAILURE TYPE	TEST CATEGORY	TEST NAME	TEST PURPOSE	ISSUE / SOLUTION
TEST FAILURE	CANCEL_TICKET	cancel_10_tickets_service_agent	ensure that agent can cancel 10 tickets in a session for a specific service	Expected transaction summary file mistakenly included a date on the cancel like. Removed date.
TEST FAILURE	CANCEL_TICKET	cancel_20_tickets_session_agent	ensure that agent can't cancel more than 10 tickets in a session for a specific service	Expected transaction summary file mistakenly included a date on the cancel like. Removed date.
SUCCESS	CANCEL_TICKET	cancel_large_tickets_planner	ensure that planner can cancel unlimited tickets (more than 20)	
CODE FAILURE	CANCEL_TICKET	cancel_more_than_10_service_agent	ensure that agent can't cancel more than 10 tickets per service when using one transaction	Added code keep track of and limit how many tickets an agent can sell per service. Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
CODE FAILURE	CANCEL_TICKET	cancel_more_than_10_service_multitrans_agent	ensure that agent can't cancel more than 10 tickets per service when using multiple transactions	Added code to keep track of and limit how many tickets an agent can sell per service. Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
CODE FAILURE	CANCEL_TICKET	cancel_more_than_20_session_agent	ensure that an agent can't cancel more than 20 tickets total in a session	Added code keep track of and limit how many tickets an agent can sell per session. Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
CODE FAILURE	CANCEL_TICKET	cancel_negative_tickets_agent	ensure agent can't cancel a negative number of tickets	Added code to check that the number entered was larger than 0
CODE FAILURE	CANCEL_TICKET	cancel_negative_tickets_planner	ensure planner can't cancel a negative number of tickets	Added code to check that the number entered was larger than 0
CODE FAILURE	CANCEL_TICKET	cancel_number_tickets_string	ensure that non numeric characters are not accepted for a number of tickets	Added a validation check to make sure all entered characters were numeric
TEST FAILURE	CANCEL_TICKET	cancel_tickets_planner	ensure planner can successfully cancel tickets	Console input mistakenly had multiple service numbers in it. Removed second service number.
CODE FAILURE	CANCEL_TICKET	cancel_too_large_tickets_planner	ensure planner can't cancel more than 1000 tickets (limit set by transaction summary file)	Limit canceling tickets to 1000. Reprompt for valid number that is greater than 0 and less than 1001
CODE FAILURE	CANCEL_TICKET	invalid_service_number	ensure given service number is valid	Code did not reprompt for a valid service number. Instead it immediately terminated.

CODE FAILURE	CANCEL_TICKET	invalid_service_number_string	ensure non-numeric characters are not accepted as a service number	Added validation check to make sure all entered characters were numeric
SUCCESS	CANCEL_TICKET	valid_service_number	ensure valid service numbers are accepted	
CODE FAILURE	CHANGE_TICKET	change_agent_ticket_limit	ensure agent can't change more than 20 tickets in a single session while using a single transaction	Added code keep track of and limit how many tickets an agent can change per session.
CODE FAILURE	CHANGE_TICKET	change_agent_ticket_limit_multi_trans	ensure agent can't change more than 20 tickets in a single session while using multiple transactions	Added code keep track of and limit how many tickets an agent can change per session.
CODE FAILURE	CHANGE_TICKET	change_invalid_current_service_number	ensure that invalid service number is not accepted as the source service number	Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
CODE FAILURE	CHANGE_TICKET	change_invalid_new_service_number	ensure that invalid service number is not accepted as the destination service number	Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
CODE FAILURE	CHANGE_TICKET	change_invalid_ticket_number_zero	ensure that 0 is not accepted as a valid number of tickets	Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
SUCCESS	CHANGE_TICKET	change_large_planner	ensure planner can change more than 20 tickets in one session	
CODE FAILURE	CHANGE_TICKET	change_too_large_planner	ensure planner can't change more than 1000 tickets in one session (limit set by the transaction summary file)	Added validation loop to reprompt user for number of tickets to change if it is outside of the bounds of 1 and 1000 Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
TEST FAILURE	CHANGE_TICKET	change_valid_to_valid_agent	ensure agent can change a ticket from one valid service to another valid service	Test console input had a space inbetween change and ticket. Removed space.
TEST FAILURE	CHANGE_TICKET	change_valid_to_valid_planner	ensure planner can change a ticket from one valid service to another valid service	Test console input had a space inbetween change and ticket. Removed space.
CODE FAILURE	CREATE_SERVICE	assign_service_date_above_d_range	ensure date entry above 31 is not accepted	Added code to check that the entered date value was between 1 and 31 (inclusive)
CODE FAILURE	CREATE_SERVICE	assign_service_date_above_m_range	ensure month entry above 12 is not accepted	Added code to check that the entered month value was between 1 and 12 (inclusive)
CODE FAILURE	CREATE_SERVICE	assign_service_date_above_y_range	ensure year entry above 2999 is not accepted	Added code to check that the entered year value was between 1980 and 2999 (inclusive)
CODE FAILURE	CREATE_SERVICE	assign_service_date_below_d_range	ensure date entry below 1 is not accepted	Added code to check that the entered date value was between 1 and 31 (inclusive)
CODE FAILURE	CREATE_SERVICE	assign_service_date_below_m_range	ensure month entry below 1 is not accepted	Added code to check that the entered month value was between 1 and 12 (inclusive)

CODE FAILURE	CREATE_SERVICE	assign_service_date_below_y_range	ensure year entry below 1980 is not accepted	Added code to check that the entered year value was between 1980 and 2999 (inclusive)
TEST FAILURE	CREATE_SERVICE	assign_service_date_invalid_format	ensure date is entered in a valid format	Console input lines were in incorrect order. Program expected day month year, and then reprompted for invalid inputs. Input lines expected an immediate reprompt.
TEST FAILURE	CREATE_SERVICE	assign_service_date_nondigit	ensure non-nummeric characters are not accepted as date entries	Console input lines were in incorrect order. Program expected day month year, and then reprompted for invalid inputs. Input lines expected an immediate reprompt.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_name_begin_space	ensure a service name can't begin with a space	Date format of output did not 0 pad months or days. This caused a difference between output and expected txn summary files. Added padding to fix.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_name_end_space	ensure a service name can't end with a space	Date format of output did not 0 pad months or days. This caused a difference between output and expected txn summary files. Added padding to fix.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_name_large	ensure service name entry is 39 characters or less	Added code to check that the entered service name value was between 3 and 39 characters (inclusive). Date format of output did not 0 pad months or days. This caused a difference between output and expected txn summary files. Added padding to fix.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_name_nonalpha	ensure non-letter characters are not accepted in the service name	Add regular expression check to ensure only alpha characters and apostrophes are accepted. Date format in console input was in the incorrect format.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_name_small	ensure service name is >=3 characters	Added code to check that the entered service name value was between 3 and 39 characters. Date format in console input was in the incorrect format. (inclusive)
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_number_0_start	ensure system dissallows service numbers beginning with 0	Date format in console input was in the incorrect format. Program was not padding single digit days and months. Added padding for txn summary output.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_number_duplicate	ensure system dissallows repeated service numbers	Date format in console input was in the incorrect format. Program was not padding single digit days and months. Added padding for txn summary output.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_number_large	ensure that the system dissallows service numbers longer than 5 digits, and then prompts for a re-entry	Date format in console input was in the incorrect format. Program was not padding single digit days and months. Added padding for txn summary output.
CODE & TEST FAILURE	CREATE_SERVICE	assign_service_number_non_digit	ensure system dissallows non-digit service numbers	Date format in console input was in the incorrect format. Program was not padding single digit days and months. Added padding for txn summary output.

CODE & TEST FAILURE	CREATE_SERVICE	assign_service_number_small	ensure that the system dissallows service numbers smaller than 5 digits, and then prompts for a re-entry	Date format in console input was in the incorrect format. Program was not padding single digit days and months. Added padding for txn summary output.
CODE & TEST FAILURE	CREATE_SERVICE	create_new_service_valid	ensure new service, with proper inputs, can be created	Date format in console input was in the incorrect format. Program was not padding single digit days and months. Added padding for txn summary output.
SUCCESS	CREATE_SERVICE	create_service_agent	ensure agent cannot execute createservice	
TEST FAILURE	DELETE_SERVICE	agent_deleteservice	ensure agent cannot execute deleteservice	Input code caused code not to terminate. No txn summary file outputted. Ensuring code termination fixed the issue.
CODE FAILURE	DELETE_SERVICE	cancelticket_deleted_service	ensure that cancelticket cannot be executed on a deleted service	Entering invalid service number ended command instead of reprompting for another input.
SUCCESS	DELETE_SERVICE	deleteservice_agent	ensure that agent cannot delete a service	
CODE FAILURE	DELETE_SERVICE	invalid_service_number	ensure that invalid service number cannot be cancelled	Entering invalid service number ended command instead of reprompting for another input.
CODE FAILURE	DELETE_SERVICE	sellticket_deleted_service	ensure that sellticket cannot be executed on a deleted service	Transaction summary file included the deleted service number despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
TEST FAILURE	DELETE_SERVICE	valid_service_number	ensure that provided service number is valid	Expected txn summary file had a date hardcoded into the DEL line. Removed and replaced with single 0.
CODE FAILURE	LOGIN	cancelticket_before_login	ensure that cancelticket is not accepted before login	Added check in cancelticket code to make sure user is logged in first.
CODE FAILURE	LOGIN	createservice_before_login	ensure that createservice is not accepted before login	Added check in createservice code to make sure user is logged in first.
CODE FAILURE	LOGIN	deleteservice_before_login	ensure that deleteservice is not accepted before login	Added check in deleteservice code to make sure user is logged in first.
TEST FAILURE	LOGIN	invalid_session_type_empty	ensure that empty input is not accepted as login type	Input code caused code not to terminate. No txn summary file outputted. Ensuring code termination fixed the issue.
CODE & TEST FAILURE	LOGIN	invalid_session_type_numeric	ensure that numeric input is not accepted as login type	Input code caused code not to terminate. No txn summary file outputted. Fixed input code. Entering an incorrect user type did not reprompt for a correct one instead it just terminated the command. Added a reprompt.
CODE & TEST FAILURE	LOGIN	invalid_session_type_string	ensure that strings other than agent and planner are not accepted as login	Input code caused code not to terminate. No txn summary file outputted. Fixed input code. Entering an incorrect user type did not reprompt for a correct one instead it just terminated the command. Added a reprompt.

TEST FAILURE	LOGIN	login_session_agent	ensure that agent login is accepted	Input code caused code not to terminate. No txn summary file outputted. Ensuring code termination fixed the issue.
TEST FAILURE	LOGIN	login_session_planner	ensure that planner login is accepted	Input code caused code not to terminate. No txn summary file outputted. Ensuring code termination fixed the issue.
SUCCESS	LOGIN	login_twice_agent	ensure that no subsequent login should be accepted after a login until after a logout	
SUCCESS	LOGIN	login_twice_planner	ensure that no subsequent login should be accepted after a login until after a logout	
TEST FAILURE	LOGIN	logout_before_login	ensure that logout is not accepted until logged in	Input code caused code not to terminate. No txn summary file outputted. Ensuring code termination fixed the issue.
CODE FAILURE	LOGIN	sellticket_before_login	ensure that transactions not accepted unless logged in	Added check in sellticket code to make sure user is logged in first.
SUCCESS	LOGOUT	login_accepted_after_logout	ensure that login is accepted after logout	
SUCCESS	LOGOUT	logout_not_logged_in	ensure that logout is not accepted unless already logged in	
SUCCESS	LOGOUT	only_login_accepted_after_logout	ensure no command other than login is accepted post logout	
TEST FAILURE	SELL_TICKET	sell_existing_service_one	ensure one ticket for a valid service can be sold	Expected txn summary file included dates in the SEL line. These dates were removed and problem was resolved.
TEST FAILURE	SELL_TICKET	sell_existing_service_two	ensure two tickets can be sold for a valid service	Expected txn summary file included dates in the SEL line. These dates were removed and problem was resolved.
CODE FAILURE	SELL_TICKET	sell_invalid_service_number	ensure that invalid service number is not accepted for ticket sales	Program did not reprompt for service number after entering an incorrect one. Added loop to do so.
CODE FAILURE	SELL_TICKET	sell_invalid_service_number_string	ensure that string is not accepted as a valid service number for ticket sales	Program did not reprompt for service number after entering an incorrect one. Added loop to do so.
SUCCESS	SELL_TICKET	sell_ticket_number_large	ensure 1000 tickets can be sold in a single transaction	
SUCCESS	SELL_TICKET	sell_ticket_number_string	ensure a string is not accepted as a number of tickets sold	
CODE FAILURE	SELL_TICKET	sell_ticket_number_too_large	ensure that no more than 1000 tickets can be sold	Added loop to reprompt for number of tickets sold if it is less than 1 or greater than 1000. Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)

SELL_TICKET CODE FAILURE	sell_ticket_number_zero	ensure zero tickets cannot be sold	Added loop to reprompt for number of tickets sold if it is less than 1 or greater than 1000. Transaction summary file included the invalid ticket amount despite program reprompting for new service number. (Old number was kept in separate variable and used instead)
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