

Software Quality Analysis(CSCI 3060)  
Christien Soosaipillai  
Irfaan Ali (100400606)

~Phase 1: Front End Requirements~

Test Cases:

Operation	Test Name	Purpose
login	login_1	Test that no other functions can be performed before the login.
	login_2	Test if a login is successful.
	login_3	Tests if current "Current_User_Accounts" can be read.
	login_4	Test if login asks for a username.
	login_5	Test if the user information provided exists in the "Current_User_Accounts" .
	login_6	Tests if current "Available_Tickets_File" can be read.
	login_7	Test an "admin login" with "administrative privileges"
	login_8	Test a "full-standard" login with "full-standard privileges"
	login_9	Test a "buy-standard login" with "buy-standard privileges"
	login_10	Test a "sell-standard login" with "sell-standard privileges.
	login_11	Test for no subsequent logins should be accepted after a login until after a logout.

Operation	Test Name	Purpose
logout	logout_1	Test if logout successful.
	logout_2	Test if logout writes to "Daily Transaction file"
	logout_3	Test logout can only be executed if a user is logged in
	logout_4	Test if no other transaction can take place after logout succeeded.

Operation	Test Name	Purpose
create	create_1	Test that create can be executed by admin type user.
	create_2	Test that create can't be executed by full-standard type user.
	create_3	Test that create can't be executed by buy-standard type user.
	create_4	Test that create can't be executed by sell-standard type user.
	create_5	Test that username is requested
	create_6	Test given username of 0 characters is not accepted.
	create_7	Test that username can be a minimum of 1 ASCII character.
	create_8	Test given username of 7 characters is accepted
	create_9	Test that username can be a maximum of 15 ASCII characters.
	create_10	Test given username of 16 characters is not accepted.
	create_11	Test given username of non-ASCII characters is not accepted.
	create_12	Test that no duplicate usernames can be used.
	create_13	Test that type of user is requested
	create_14	Test that "admin" type user can be created.
	create_15	Test that "full-standard" user can be created.
	create_16	Test that "buy-standard" user can be created.
	create_17	Test that "sell-standard" user can be created.
	create_18	Test that starting credit amount is requested
	create_19	Test that user start credit of -\$1.00 is not accepted.
	create_20	Test that minimum credit in a created user account of \$0.00 is accepted.
	create_21	Test that a credit amount of 499,999.99 can be added as a starting amount.
	create_22	Test that maximum credit in a created user account of \$999,999.00 is accepted.
	create_23	Test that user start credit of \$1,000,000.00 is not accepted.
	create_24	Tests if operation is recorded in Daily Transaction File.

Operation	Test Name	Purpose
delete	delete_1	Test that delete can be executed by admin user.
	delete_2	Test that delete can't be executed by admin full-standard.
	delete_3	Test that delete can't be executed by admin buy-standard
	delete_4	Test that delete can't be executed by admin sell-standard
	delete_5	Test that user cannot delete current user's user account.
	delete_6	Test that delete asks for username.
	delete_7	Test if requested username exists.
	delete_8	Test if username was created the same day before deleting.
	delete_9	Tests if operation is recorded in Daily Transaction File.
	delete_10	Test if newly deleted user can log back in.
	delete_11	Test that no further transactions can occur on a deleted user's account.
	delete_12	Test if the deleted user's purchase and/or selling inventory is erased.

Operation	Test Name	Purpose
sell	sell_1	Tests that sell executes while logged in as admin
	sell_2	Test that sell executes while logged in as full-standard
	sell_3	Test that sell executes while logged in as sell-standard
	sell_4	Test that sell can't execute while logged in as buy-standard
	sell_5	Test that sell asks for a event title.
	sell_6	Test sell for event title consisting of 0 ASCII characters is not accepted.
	sell_7	Test sell for event title minimum of 1 ASCII characters is accepted.
	sell_8	Test sell for event title consisting of 13 ASCII characters is accepted.

	sell_9	Test sell for event title maximum of 25 ASCII characters is accepted.
	sell_10	Test sell for event title consisting of 26 ASCII characters is not accepted.
	sell_11	Test sell for event title consisting of non-ASCII characters is not accepted.
	sell_12	Test that sell asks for a sale price.
	sell_13	Test sell for ticket valued at \$0.00 is not accepted.
	sell_14	Test sell for minimum ticket price at \$0.01 is accepted.
	sell_15	Test sell for ticket sold at a \$500.50 value is accepted.
	sell_16	Test sell for maximum ticket price at \$999.99 is accepted.
	sell_17	Test sell for ticket valued at \$1000.00 is not accepted.
	sell_18	Test sell for ticket sold at a negative value is not accepted.
	sell_19	Test sell for amount of tickets being sold as 0 is not accepted.
	sell_20	Test sell for amount of tickets being sold as 1 is accepted.
	sell_21	Test sell for amount of tickets being sold as 50 is accepted.
	sell_22	Test sell for amount of tickets being sold as 100 is accepted.
	sell_23	Test sell for amount of tickets being sold as 101 is not accepted.
	sell_24	Test sell for a non-whole number amount of tickets not being accepted
	sell_25	Test sell for amount of tickets being sold as a negative amount is not accepted.
	sell_26	Test that sell is successful (Registered in System).
	sell_27	Test that the sell information is recorded in the available tickets file.
	sell_28	Test that the sell information is recorded in the daily transactions file

Operation	Test Name	Purpose
buy	buy_1	Tests that buy executes while logged in as admin
	buy_2	Test that buy executes while logged in as full-standard

	buy_3	Test that buy executes while logged in as buy-standard
	buy_4	Test that buy can't execute while logged in as sell-standard
	buy_5	Test that buy asks for the event title.
	buy_6	Test event titles of 0 characters are not accepted.
	buy_7	Test event titles of 1 character are accepted.
	buy_8	Test event titles of 20 characters are accepted.
	buy_9	Test event titles of 25 characters are accepted.
	buy_10	Test event titles of 26 characters are not accepted.
	buy_11	Test that event title exists.
	buy_12	Test that buy asks for the number of tickets.
	buy_13	Test that 0 tickets cannot be purchased.
	buy_14	Test that a minimum of 1 ticket can be purchased.
	buy_15	Test that 3 tickets can be purchased.
	buy_16	Test that a maximum of 4 tickets can be purchased.
	buy_17	Test that 5 tickets cannot be purchased.
	buy_18	Test that amount of ticket to be bought doesn't exceed the seller's inventory.
	buy_19	Test that the tickets can't be bought the same day they were put on sale.
	buy_20	Test that correct amount of money is deducted from the buyer's account.
	buy_21	Test that the purchase only goes through if the buyer has enough credit to purchase the ticket(s).
	buy_22	Test that the purchase information was outputted to the daily transaction file.

Operation	Test Name	Purpose
refund	refund_1	Test that refund only executes while user is logged in as admin.
	refund_2	Test that the buyer's username is requested.

	refund_3	Test that the seller's username is requested.
	refund_4	Test refund for username request consisting of 0 ASCII characters is not accepted.
	refund_5	Test refund for a minimum of 1 ASCII character is accepted.
	refund_6	Test refund for a username consisting of 13 ASCII characters is accepted.
	refund_7	Test refund for a maximum of 25 ASCII characters is accepted.
	refund_8	Test refund for a username consisting of 26 ASCII characters is not accepted.
	refund_9	Test that the buyer is a current user.
	refund_10	Test that the seller is a current user.
	refund_11	Test that -\$1.00 credits cannot be refunded.
	refund_12	Test that \$0 credits cannot be refunded.
	refund_13	Test that \$10 credit can be refunded.
	refund_14	Test that the right amount of credit is transferred from the seller's account to the buyer's account
	refund_15	Test that the amount of credit refunded doesn't make the buyer's account exceed \$999,999.00
	refund_16	Test that the amount of credit refunded doesn't make the seller's account less than \$0.00
	refund_17	Test that refund is successful.
	refund_18	Test that the refund information was outputted to the daily transaction file.

Operation	Test Name	Purpose
addcredit	addcredit_1	Test if credit can be added to a user account using admin type account.
	addcredit_2	Test if addcredit requests for a username only for admin
	addcredit_3	Test addcredit for username request consisting of 0 ASCII characters is not accepted.
	addcredit_4	Test addcredit for a minimum of 1 ASCII character is accepted.

	addcredit_5	Test addcredit for a username consisting of 7 ASCII characters is accepted.
	addcredit_6	Test addcredit for a maximum of 15 ASCII characters is accepted.
	addcredit_7	Test addcredit for a username consisting of 16 ASCII characters is not accepted.
	addcredit_8	Test if addcredit requests for an amount of credit to transfer
	addcredit_9	Test if credit can be added to a user account that doesn't exist.
	addcredit_10	Test if credit can be added to the current user's account using a full standard account.
	addcredit_11	Test if credit can be added to the current user's account using a buy-standard account.
	addcredit_12	Test if credit can be added to the current user's account using a sell-standard account.
	addcredit_13	Test that \$0.00 credits cannot be added to an account.
	addcredit_14	Test that a minimum of \$0.01 credits can be added to an account.
	addcredit_15	Test that \$500.00 credits can be added to an account.
	addcredit_16	Test that a maximum of \$1000.00 credits can be added to an account.
	addcredit_17	Test that \$1000.01 credits cannot be added to an account.
	addcredit_18	Test if user's current balance will be greater than \$999,999.00 after credit then credit will not be added.
	addcredit_19	Test that addcredit is successful.
	addcredit_20	Test that transaction is saved to the "Daily Transaction File".