How to execute script:
      1. Run "run_test.sh" through GIT BASH
      2. All Test Cases saved under test_logs.log
      3. Open "test_logs.log" to view PASSED and FAILED tests

Failure Table

Note for every test case failure:
Why they failed: *.txt files colliding due to being the same name*
How to fix: *Change extension of .txt files for both input and output files to its respective extension (.out, and .in)*

Test Cases	Descriptions	Failure Info	How to fix
T1 (Successful Login)	This test verifies a successful login scenario where a user provides a valid username, allowing the system to read current user accounts and available games.	User was unable to login.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T2 (Invalid Username Format)	It checks if the system handles an attempt to login with an invalid username format (e.g., containing special characters), providing an appropriate error message.	Special characters allowed in username, compromising system security.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T3 (Logout Followed by Login)	Ensures that the system allows a user to log in after properly logging out without encountering any issues	Login fails after logout due to a session still persistence	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T4 (Standard User Attempting Privileged Transaction)	Checks whether the system prevents a standard user from performing a privileged transaction, generating an error message accordingly	Standard user successfully performs a privileged transaction	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T5 (Non-admin Login Followed by Admin Login)	Verifies that the system allows a non-admin user to log in, log out, and then allows an admin to log in without any issues	Admin login blocked after non-admin, an authentication flaw.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T6 (Multiple Logins)	Ensures that the system handles multiple login attempts correctly, preventing subsequent logins until a proper logout has occurred.	System allows multiple simultaneous login	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T7 (Empty Username)	Checks if the system handles an attempt to login with an empty username, providing an appropriate error message	System accepts empty username	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T8 (Nonexistent User Login)	Verifies that the system correctly handles a login attempt with a username that doesn't exist, providing an error message	System allows login with a nonexistent username	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T9 (Admin Attempting Unprivileged Transaction)	Checks if the system prevents an admin user from performing an unprivileged transaction, generating an error message accordingly	Admin successfully performs an unprivileged transaction	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T10 (Admin Login Followed by Standard User Login)	Ensures that the system allows an admin to log in, log out, and then allows a standard user to log in without any issues	Standard user login blocked after admin	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T11 (Attempting Transaction After	Checks whether the system correctly	User performs a transaction after	Change extension of .txt files for both input

Logout)	prevents users from performing transactions after logging out, providing an appropriate error message.	logout	and output files to its respective extension (.out, and .in)
T12 (Admin Logging in After Logout)	Verifies that the system allows an admin user to log in again after properly logging out	Admin unable to log in again after proper logout	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T13 (Consecutive Failed Logins)	After a certain number of consecutive failed attempts, the system should temporarily lock the account or implement a delay to prevent brute-force attacks.	Consecutive failed logins do not trigger account lockout	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T14 (Login During Another Active Session)	The system should prevent concurrent logins and notify the user that another session is already active	System allows concurrent logins	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T15 (Login After System Reset)	The system should handle the login correctly after a system reset, initializing necessary components for the new session	Login fails after system reset	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T16 (Unauthorized Access After Logout)	Try to perform a transaction after logging out.	Unauthorized access to system functions after logout	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T17 (Successful	User logs out after a	User is not able to	Change extension of

Logout)	successful login	logout after successful login	.txt files for both input and output files to its respective extension (.out, and .in)
T18 (Logout After Failed Transaction)	User attempts to logout after a failed transaction	User logs out after encountering a failed transaction	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T19 (Logout After Multiple Transactions)	User performs multiple transactions and then logs out	User logs out after completing multiple transactions	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T20 (Logout Without Performing Any Transactions)	User logs in but decides to logout without performing any transactions	User logs in but decides to logout without any transactions	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T21 (Logout After Add Credit Transaction)	User logs out after adding credit to the account	User is not able to logout after adding credit to account	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T22 (Logout After Game Transactions)	User logs out after buying/selling games	User is not able to log out after buying/selling games	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T23 (Logout After Refund Transaction)	User logs out after processing a refund	User is not able to log out after processing a refund	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T24 (Logout After Admin Operations)	Admin user logs out after performing admin operations	Admin user is not able to logout after performing admin	Change extension of .txt files for both input and output files to its

		operations	respective extension (.out, and .in)
T25 (Logout During Transaction Processing)	User attempts to logout while a transaction is being processed	Logout during transaction processing disrupts the system.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T26 (Logout After Failed Transaction)	User logs in, attempts a transaction that fails, and then tries to logout	Logout encounters errors, leaving the user session unresolved after a failed transaction.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T27 (Logout After Deletion of User Account)	Admin user logs in, deletes a user account, and then tries to logout	Admin logout fails after deleting a user account	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T28 (Logout During File Write Error)	User logs in, performs transactions, and encounters an error during the file write process when logging out	Log Out during file write error creating potential data corruption	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T29 (Username unique)	Username must be unique from all other users	System allows creation of a user with an already existing username.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T30 (Creation of user with max credits)	An admin creates a user with the	Admin encounters an error while creating a	Change extension of .txt files for both input

	maximum credit to see if it works	user with maximum credits.	and output files to its respective extension (.out, and .in)
T31 (Creation of user with invalid credits)	Verify the system rejects creation of a user with invalid credit amount	System accepts the creation of a user with an invalid credit amount.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T32 (Non admin tries to create a user)	Confirm that a non-admin user cannot access user creation features.	Non-admin user accesses and successfully creates a new user.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T33 (Space-Free Username Validation)	Username with spaces should not be allowed	System allows usernames with spaces	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T34 (Alphanumeric Username Compliance)	Test that usernames are limited to alphanumeric characters, rejecting any special characters.	System accepts special characters in usernames	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T35(Username Case Sensitivity Analysis)	Determine whether the system distinguishes usernames based on capitalization.	System fails to distinguish usernames based on capitalization	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T36 (Buyer Privilege Assignment)	Check the system's capability to assign 'buy-standard' privileges during user creation.	User created with 'buy-standard' privileges experiences access issues.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T37 (Seller Privilege Assignment)	Verify the system's ability to create users with 'sell-standard' privileges.	User with 'sell-standard' privileges experiences access	Change extension of .txt files for both input and output files to its respective extension

		issues	(.out, and .in)
T38 (Mandatory Username Submission)	Validate that the system mandates the entry of a username for user creation.	System allows user creation without mandating a username	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T39 (One-Character Username Acceptance)	The system only allows the creation of users with a minimum of one character in their username.	System rejects the creation of users with one-character usernames	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T40 (Non-Decimal Credit Limit Adherence)	Assess if the system strictly enforces non-decimal credit values, particularly at the upper limit.	System permits creation of users with decimal credit values	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T41 (Unauthorized Creation Prevention)	Ensure that user creation is not possible when the admin is not logged in.	User creation possible without admin login	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T42 (Specific Credit Initialization)	Test the system's ability to set a precise initial credit amount for new users.	System encounters errors when attempting to set a precise initial credit amount.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T43 (Fifteen-Character Username Limit)	Confirm the system's acceptance of usernames that are exactly 15 characters long.	System accepts usernames longer than 15 characters	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T44 (Admin Account Creation)	Assess the process of creating a new user with administrative privileges.	Non-admin user successfully creates a new user with administrative privileges.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T45 (Complete Privilege User Setup)	Examine the creation process for users with 'full-standard' privileges.	Users with 'full-standard' privileges face restrictions during the creation process.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T46 (Long Username Rejection)	Validate that the system rejects usernames exceeding 15 characters.	System fails to reject usernames exceeding the 15-character limit.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T47 (User Creation Recordkeeping)	Ensure that all user creations are accurately logged in the daily transaction file.	User creations are not accurately logged in the daily transaction file.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T48 (User Type Specification)	Test the system's handling of user type selection during the account creation process.	System encounters errors or inconsistencies during user type selection in the account creation process.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T49 (Admin Privilege Verification)	Ensure that delete actions are only accepted when performed by an admin user.	Non-admin user successfully deletes another user	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T50 (User Existence Check)	Confirm that the user exists in the system and is not the current logged-in user before deletion.	System allows deletion without confirming user existence	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T51 (Post-Deletion Transaction Block)	Verify that once a user is deleted, no further transactions can occur on their available inventory of games.	Transactions still possible on a deleted user's inventory,	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T52 (Deletion Confirmation)	Test if the system asks for confirmation before deleting a user.	System deletes a user without asking for confirmation after asking the system to delete a user	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T53 (Transaction File Update)	Check if the deletion of a user is correctly logged in the daily transaction file.	Deletion of a user is not correctly logged in the daily transaction file	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T54 (Inventory Clearance Check)	Confirm that all games for sale by the user are canceled upon deletion.	Games for sale by the user are not canceled upon deletion	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T55 (User Re-creation Check)	Verify if the system allows creating a new user with the same username after deletion.	System allows creating a new user with the same username immediately after deletion.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T56 (Multi-User Deletion Handling)	Test system behavior when multiple user deletions are requested in sequence.	System encounters errors or inconsistencies when handling sequential user deletions.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T57 (User Deletion Audit Trail)	Ensure there's a proper audit trail for user deletion actions.	Inaccurate audit trail for user deletion actions.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T58 (Username input validate)	Test to see if the system correctly prompts for and accepts a valid username for deleting.	System does not correctly prompt for or validate a valid username for deletion	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T59 (Non-Existence User Deletion	Test the system's response when an	System incorrectly allows attempting to	Change extension of .txt files for both input

Attempt)	attempt is made to delete a non-existent user.	delete a non-existent user	and output files to its respective extension (.out, and .in)
T60 (Current User Deletion Attempt)	Verify the system prevents an admin from deleting their own account while logged in.	Admin can delete their own account while logged in	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T61 (Deletion Impact on Active Sessions)	Assess whether active sessions of a deleted user are terminated immediately upon account deletion.	Active sessions of a deleted user are not terminated immediately upon account deletion.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T62 (Deletion with Pending Transactions)	Test how the system handles deletion when there are pending transactions associated with the user.	System mishandles deletion when there are pending transactions	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T63 (Sell/List Game (Buy Standard User))	Test if an error is given when a standard user tries to sell a game	Standard user successfully attempts to sell a game, violating privilege restrictions.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T64 (Check ASCII)	Game's name must be in ASCII letters only.	Game's name contains non-ASCII letters, violating character constraints	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T65 (Sell from list)	Sell from list command	System encounters an error when attempting to sell from the list,	Change extension of .txt files for both input and output files to its respective extension

		disrupting the selling process.	(.out, and .in)
T66 (Test Same Name as other game)	If game being sold has the same name (capitalization does not matter) as a another game, it cannot be listed and is considered the same game	System allows selling a game with the same name as another	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T67 (Sell/List Game (Admin))	Test the successful listing of a game by an admin user	Admin does not successfully list a game without encountering errors.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T68 (Sell Game (Full-Standard User))	Test the successful listing of a game by a Full-standard user	Full-standard user does not successfully list a game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T69 (Sell game without logging in)	Test if system prompts the user to log in before the selling screen	System allows selling without requiring user login	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T70 (Sell game a game with Max Length of game name)	Test selling a game with the maximum allowed length of the game name	System does not allow selling a game with the maximum allowed length of the game name stating incorrect length.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T71 (Sell a game with more than the Max Length of game name)	Test selling a game with a name that is above the maximum allowed length of the game name and see if error	Attempting to sell a game with a name above the maximum length triggers an error.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T72 (Sell/list game (Sell Standard)	Test the successful listing of a game by an sell standard	Sell-standard user does not successfully list a game	Change extension of .txt files for both input and output files to its respective extension

			(.out, and .in)
T73(Sell Game - Exceed Maximum Price)	Test attempting to sell a game with a price exceeding the maximum allowed and display an error	System allows selling a game with a price exceeding the maximum allowed	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T74 (Sell Game - Maximum Price)	Test successfully attempting to sell a game right on the maximum price.	System does not allow selling a game with the maximum price giving the error that the game is being sold higher than the maximum price	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T75 (Sell Game - Not Numbers)	Attempt to sell a game with anything but a number and display an error	Allows you to successfully sell a game with an invalid price that is not a number.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T76 (More than 2 point decimal)	Display error if user attempts to sell a game with more than 2 points of a decimal (43.221)	System allows selling a game with more than 2 decimal points in the price, causing data issues.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T77 (Sell game with price of PPPP)	Successfully sell a game with the price of P.PP (2.63)	System does not allow selling a game with the price of P.PP	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T78 (Sell a game with price of PPPPP)	Successfully sell a game with the price of PP.PP (31.53)	System does not allow selling a game with the price of PP.PP	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T79 (Sell a game with price of P)	Successfully sell a game with the price of P(4)	System does not allow selling a game with the price of P	Change extension of .txt files for both input and output files to its respective extension

			(.out, and .in)
T80 (Choose Game name)	Successfully input the game's name when system prompts you to	User is not prompted with inputting the game's name	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T81 (Choose game price)	Successfully input game price when system prompts you to	User is not prompted with inputting the game price	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T82 (Saved to daily transaction file(admin))	Check if game is saved to daily transaction file after inputting the game name, game price	Game listing by an admin is not accurately saved to the daily transaction file.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T83 (Sell during login)	Attempt to sell from the login stage and ensure it does not allow so	System allows selling directly from the login stage	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T84 (Log in, then log out and then sell from login stage)	Login, Logout, then sell from the login stage and ensure it does not allow so	System allows selling from the login stage after logging out	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T85 (Input a empty game name)	Attempt to sell a game with no name and display and error	System allows selling a game with no name, triggering an error	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T86 (Successfully set the game's name with ASCII letters)	Successfully sell a game with ASCII letters only	User successfully sells a game with ASCII letters only.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T87(Sell a game with the same name but different capitalization)	Sell a game with the same name as another game but the only difference is a capital and display an error as not unique	System allows selling a game with the same name but different capitalization, causing data discrepancies.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T88 (Game name is special letter)	Fail to sell a game with letters other than ASCII	System allows selling a game with letters other than ASCII, violating character constraints.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T89 (No Price entered)	Attempt to sell a game with no price entered	Attempting to sell a game with no price entered triggers an error.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T90 (Sell a game with price of PPPPPP)	Successfully sell a game with the price of PPP.PP (901.53)	System does not allow selling a game with the price of PPPPPP	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T91 (Test for appending of .00 on games of P)	Test to see if the transaction file is updated with an additional .00 on games with just P, PP, or PPP (10-> 10.00)	The transaction file is not updated with an additional .00 on games with just P, PP, or PPP	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T92 Test for unused numbers)	Test to see if unused numbers of a price are replaced with 0s ((e.g. 0000 for free game)	Unused numbers in the price are not replaced with 0s	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T93 (Free game)	Attempt to sell a free game	User is not able to sell a free game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T94 (Buy Game (Sell-Standard User))	Test for an error to be given if a Sell-Standard user attempts to purchase a game	Sell-standard user successfully purchases a game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T95 (Test if message is displayed to logout after buying a game)	Users should be told to logout to refresh the backend to display their game in their library.	System does not prompt the user to logout .	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T96 (Test if Buyer is the Seller (Full-Standard)	Check for if the User is the Seller of the said game they are buying and display error.	Full-standard user is not able to purchase a game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T97 (Buy Game (Admin user))	Test the successful purchase of a game by an admin user	Admin user is not able to purchase a game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T98 (Buy Game (Buy-Standard User))	Test the successful purchase of a game by a buy-standard user	Buy-standard user is not able to purchase a game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T99 (Buy game with not enough credit)	Verify the system does not allow the purchase of a game if the user does not have enough credits and it displays the appropriate error message	System allows attempting to buy a game with insufficient credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T100 (Buy game with enough credits - Buy-Standard User)	Successfully purchase a game with the correct amount of credits needed to purchase	Buy-Standard user is not able to purchase a game even with the right amount of credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

	the game		
T101 (Buy game with enough credits Admin User)	Successfully purchase a game with the correct amount of credits needed to purchase the game	Admin user is not able to purchase a game even with the right amount of credits.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T102 (Buy game with enough credits Sell-Standard User)	Verify the system does not allow for a sell-standard user to purchase the game even with the correct amount of credits	Sell-standard user successfully purchases a game with the correct amount of credit even though Sell-Standard should not be able to purchase a game at all	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T103 (Buy game with enough credits Full-Standard User)	Successfully purchase a game with the correct amount of credits needed to purchase the game	Full-standard user is not able to purchase a game even with the right amount of credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T104 (Buy Game - Non Existing Game)	Test attempting to buy a game that does not exist	System allows attempting to buy a game that does not exist	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T105 Buy Game with Maximum price)	Test buying a game that is at the maximum price	UnSuccessfully buys a game that is at the maximum price	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T106 (Buy game from Full-Standard user)	Test buying a game from a Full-Standard user	Unable to buy a game from a Full-Standard user triggering error	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T107 (Buy game from Sell-Standard user)	Test buying a game from a Sell-Standard user	Unable to buy a game from a Sell-Standard user triggering error	Change extension of .txt files for both input and output files to its respective extension

			(.out, and .in)
T108 (Buy game from Admin user)	Test buying a game from a Admin user	Unable to buy a game from a Admin user triggering error	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T109 (Buy a game with Maximum characters)	Test buying a game successfully that has the maximum character limit	UnSuccessfully buys a game with the maximum character limit.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T110 (Buy game with price of X.XX)	Successfully buy a game with the price of X.XX (2.63)	UnSuccessfully buys a game with the price of X.XX	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T111 (Buy a game with price of XX.XX)	Successfully buy a game with the price of XX.XX (31.53)	UnSuccessfully buys a game with the price of XX.XX	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T112 (Buy a game with price of X)	Successfully buy a game with the price of X (4)	UnSuccessfully buys a game with the price of X.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T113 (Buy game without logging in)	Attempt to use the buy command from the login screen	System allows using the buy command from the login screen	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T114 (Buy game with not enough credits - Buy-Standard User)	Display error for not having enough credits to purchase game	System does not display an error when trying to purchase a game without enough credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T115 (Buy game with not enough credits Admin User)	Display error for not having enough credits to purchase game	System does not display an error when trying to purchase a game without enough credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T116 (Buy game with not enough credits Sell-Standard User)	Display error telling the user they are a Sell-Standard user and may not purchase any games.	System does not display an error when trying to purchase a game without enough credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T117 (Buy game with not enough credits Full-Standard User)	Display error for not having enough credits to purchase game	System does not display an error when trying to purchase a game without enough credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T118 (Test if Buyer is the Seller (Admin)	Check for if the Admin is the Seller of the said game they are buying and display error	Admin user successfully buys a game they are selling	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T119 (Buy game that does exist with different capitalization)	Successfully purchase a game by inputting the correct game name but the capitalization is different.	Displays error when trying to purchase a game with the same name but different capitalization	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T120 (Buy game with game not in collection)	Successfully purchase a game with game not already being in the library of the user	Does not allow purchasing a game that is not in the library of the user	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T121 (Buy a game on one user, then try it on another user)	Successfully purchase a game that has been purchased by another user already in the past.	Displays error trying to buy a game that another user has already bought	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T122(Buy a game that exists in	Fail to purchase a game as it is already	Successfully purchases a game	Change extension of .txt files for both input

collection)	in the collection	that is in the collection of the user	and output files to its respective extension (.out, and .in)
T123 (Purchase the same game again in the same session)	Attempt to purchase the same game in the same session	Attempting to purchase the same game in the same session triggers an error.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T124 (Purchase a game again in the same session)	Purchase one game, then purchase another game. In the same session	Purchases one game, then is unable to purchase another game in the same session	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T125 (Daily transaction file update)	Check if the daily transaction file has been updated correctly after the purchase of a game	The daily transaction file is incorrectly updated after the purchase of a game.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T126 (Purchase a free game (Admin))	Successfully purchase a game and make sure no credits are taken away	Credits are taken away when buying a free game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T127 (Purchase a free game (Full-Standard))	Successfully purchase a game and make sure no credits are taken away	Credits are taken away when buying a free game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T128 (Purchase a free game (Buy-Standard))	Successfully purchase a game and make sure no credits are taken away	Credits are taken away when buying a free game	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T129 (Purchase a free game (Sell-Standard))	Display error that you may not purchase a video game as a Sell-Standard	Credits are taken away when buying a free game	Change extension of .txt files for both input and output files to its respective extension

	account		(.out, and .in)
T130 (Purchase from list command)	Input list command and then input buy command and successfully purchase a game	Unable to purchase a game from the list command	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

Test Cases	Descriptions		
T200 (Admin refunds game)	Credit is issued to buyers account from seller's account	Credit is unsuccessfully issued to the buyer's account from the seller's account	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T201 (Buyer requests refund within 24 hours)	Accepts request and asks for username of the seller and buyer.	Refund is declined even within 24 hours	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T202 (Buyer requests refund after 24 hours)	Declines request to refund, due to the 24 hour window where it is not refundable.	The request for a refund is accepted even after 24 hour window	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T203 (Buyer types invalid username)	Error is issued stating that buyer's username doesn't exist, request failed.	An error is not issued for an invalid buyer's username, allowing the request to proceed.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T204 (Buyer types invalid seller username)	Error is issued stating that seller's username doesn't exist, request failed.	An error is not issued for an invalid seller's username, allowing the request to proceed.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T205 (Buyer types seller's username but seller isn't currently selling game)	Request fails and informs the buyer that game isn't currently in their library	Request is accepted informs the game has been bought	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T206 (Buyer types incorrect amount of credit)	Request fails and informs the buyer that an incorrect amount of credit was put in.	The request is accepted even with an incorrect amount of credit entered.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T207 (Seller doesn't have the necessary amount of credit)	Request fails and informs the buyer that game can't be refunded due to lack of credits from the seller	The system fails to inform the buyer that the game can't be refunded due to a lack of credits from the seller.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T208 (buyer types seller's username but account was deleted)	Error is issued stating that seller's account has been deleted.	No error is issued, and the system incorrectly proceeds with the refund for a deleted seller's account.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T209 (Multiple refund requests)	Ensures that the system handles multiple refund attempts, preventing subsequent refund until previous translation has been completed.	The system incorrectly handles multiple refund attempts, allowing subsequent refunds before the previous transaction is completed.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T210 (User enters an empty username for buyer)	Task fails and asks user to type in a valid buyer username	The task incorrectly proceeds without asking the user to type in a valid buyer username.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T211 (User enters an empty username for seller)	Task fails and asks user to type in a username	The task incorrectly proceeds without asking the user to type in a username.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T212 (User enters an empty amount of credits)	Transaction fails and asks user to type in a username	The transaction incorrectly proceeds without asking the user to type in a valid amount of credits.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T213 (Buyer types in an incorrect amount of credits)	System tells user that incorrect amount of credits was entered	The system fails to inform the user that an incorrect amount of credits was entered.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T215 (Admin adds credit to user account)	add credit into the system for the purchase of accounts	Admin is not allowed to add credit into the system	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T216 (Admin exceeds $1000 in current session)	An error occurs and tells admin that maximum transaction been reached for current session.	No error occurs, and the admin can exceed the maximum transaction limit for the current session.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T217 (Admin types invalid username)	Error occurs stating that username does not exist	No error occurs, and the system incorrectly proceeds with the transaction for an invalid username.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T218 (Admin types invalid amount of credits for user account)	Transaction fails and tells admin that invalid amount of credits have been entered	The transaction incorrectly proceeds without informing the admin that an invalid amount of credits has been entered.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T219 (Admin types invalid amount of credits for admin account)	Transaction fails and tells admin that invalid amount of credits have been entered	The transaction incorrectly proceeds without informing the admin that an invalid amount of credits has	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

		been entered.	
T220 (Admin types credits with decimal)	Transaction is accepted and credits are entered	Transaction is not accepted stating error	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T221 (User types the amount of credit)	Transaction is accepted	Transaction is not accepted after user types the credits	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T222 (User exceeds maximum amount of credit)	Transaction fails and tells user that they exceed maximum amount of credit permitted	The transaction incorrectly proceeds without informing the user that they exceed the maximum amount of credit permitted	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T223 (User types credit with decimal)	Transaction is accepted and credits are entered	Transaction is not accepted after user inputs credits with decimal	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T224 (Empty amount of credits have been entered)	Transaction fails and asks user to type in a valid amount of credits	The transaction incorrectly proceeds without asking the user to type in a valid amount of credits.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)

T225 (Test List (Admin))	Test successfully listing all game names with price as an admin user.	Admin cannot successfully list all game names with prices; the system fails to retrieve and display the game information.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T226 (Test List (Full-Standard))	Test successfully listing all game name with price as a Full-Standard user	Full-Standard user cannot successfully list all game names with prices; the	Change extension of .txt files for both input and output files to its respective extension

		system fails to retrieve and display the game information.	(.out, and .in)
T227 (Test List (Sell-Standard))	Test successfully listing all game name with price as a Sell-Standard user	Sell-Standard user cannot successfully list all game names with prices; the system fails to retrieve and display the game information.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T228 (Test List (Buy-Standard))	Test successfully listing all game name with price as an Buy-Standard user	Buy-Standard user cannot successfully list all game names with prices; the system fails to retrieve and display the game information.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T229 (Test List After Game Transactions)	Verifies that the system can successfully list all available games, including those that have been bought or listed for sale, after user transactions such as purchasing and selling games.	After user transactions, the system fails to accurately list all available games, including those that have been bought or listed for sale.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T230 (Test List After Refund Transaction)	This test checks if the system correctly lists all available games after processing a refund transaction. It ensures that the game list remains accurate and up-to-date even after financial transactions.	After a refund transaction, the system fails to correctly list all available games, impacting the accuracy and up-to-dateness of the game list.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T231 (Test List After Admin Operations)	This test verifies if the system lists all available games successfully after various administrative operations (creating a new user, deleting a user, and adding	After various administrative operations, such as creating a new user, deleting a user, and adding credit, the system fails to list all available games	Change extension of .txt files for both input and output files to its respective extension (.out, and .in) Change extension of .txt files for both input and output files to its

	credit). It ensures that admin operations do not affect the accuracy of the game list.	successfully.	respective extension (.out, and .in)
T232 (Test List After Concurrent Transactions)	This test evaluates the system's ability to provide an accurate game list for a user after other users have performed concurrent transactions. It checks if the list is consistent and unaffected by simultaneous activities.	The system fails to provide an accurate game list for a user after other users have performed concurrent transactions.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)
T233 (Test List After Session End)	This test examines the system's behavior when listing games after a session has ended. It involves logging in, performing multiple transactions, logging out, logging in again, and checking if the game list is correctly displayed.	After a session has ended, the system fails to correctly list games.	Change extension of .txt files for both input and output files to its respective extension (.out, and .in)