**Phase #1**

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**Transaction: Login/Logout**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| login1 | User logs in as admin user and logs out | Login  User01  logout | -- | Enter a username to login  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exited Session |
| login2 | User logs in as a user that does not exist | Login  User05 | -- | Error - Unable to login, user does not exist  Enter a username to login: |
| login3 | User logs in as a buy-standard user and logs out | Login  User03  logout | -- | Enter a username to login:  Welcome, User 03 to the Auction Service.  Main Menu  ---------------  - Bid -  - Add Credit -  - Logout -  Enter a command:  Exited Session |
| login4 | User logs in as a sell-standard user and logs out | Login  User04  logout | -- | Enter a username to login  Welcome, User04 to the Auction Service.  Main Menu  ---------------  - Advertise -  - Add Credit -  - Logout -  Enter a command:  Exited Session |
| login5 | User logs in as a full-standard and and logs out | Login  User02  logout | -- | Enter a username to login  Welcome,User02 to the Auction Service  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter a command:  Exited Session |

**Transaction: Account Creation**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| account\_creation1 (background task) | User logs in as an admin and creates an admin account, then logs out | Login  User01  Create  User99  AA  Logout | 01 User99 AA 000000000 | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter a username for the new account:  Enter an account type:  Account Created  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exited Session |
| account\_creation2 | Standard user attempts to create a account | Login  User02  Create  Logout | -- | Enter a username to login:  Welcome, User02 to the Auction Service.  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter a command:  Error - Invalid command  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter a command:  Exited session |
| account\_creation3 | User entered an invalid username that doesn’t meet length constraints. | Login  User01  Create  123456789ABCDEFG  Logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter a username for the new account:  Username Invalid - must be between 1-15 characters  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting Session |
| account\_creation4 | Username entered already exists | Login  User01  Create  123456789ABCDEF  logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter a username for the new account:  Username Invalid - username already exists, please choose another name  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting Session |
| account\_creation5 | User entered an invalid account type | Login  User01  Create  123456789ABCDEF  A  Logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter a username for the new account:  Enter an account type:  Error - Invalid account type  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |

**Transaction: Delete**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| delete1 | Check that an admin user can remove the user account | Login  User01  delete  Someuser  logout | 02 someuser FS 100 | Enter Username:  Welcome, User01 to the Auction Service    Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Success - removed user account & associated items  Exited Session |
| delete2 | Check that the admin can’t remove himself | Login  User01  delete  User01  Logout | -- | Enter username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Error - Account in use  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Exited Session |
| delete3 | Check that the admin can’t remove another admin | User01  Delete  Someadmin  logout | -- | Enter username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Error - Cannot delete admin accounts  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -    Exited Session |
| delete4 | Check that a normal user can’t remove any accounts | User02  Delete  Logout | -- | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter Command:  Error - Inadequate permission  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter Command:  Exited Session: |

**Transaction: Advertise**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| advertise1 | Test admin putting up an item that meets all constraints | User01  Advertise  Computer  150 30  Logout | 03 Computer User01 030 015000 | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid:  Enter Duration of Auction (Days):  Success - advertised item  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise2 | Test Full-standard account putting up an item that meets all constraints | User02  Advertise  Computer  150 30  logout | 03 Computer User02 030 015000 | Enter Username:  Welcome, User02 to the Auction Service  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid:  Enter Duration of Auction (Days):  Success - advertised item  Main Menu  ---------------  - Advertise -  - Bid -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise3 | Test Buy-standard putting up an item that meets all constraints | User03  Advertise  logout | -- | Enter Username:  Welcome, User03 to the Auction Service  Main Menu  ---------------  - Bid -  - Add Credit -  - Logout -  Enter command:  Error - Inadequate Permission  Main Menu  ---------------  - Bid -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise4 | Test Sell-standard putting up an item that meets all constraints | User04  Advertise  Computer  150 30  logout | 03 Computer User01 030 015000 | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Advertise -  - Add Credit -  - Logout -  Enter command:  Enter Item Name:  Enter Minimum Bid:  Enter Duration of Auction (Days):  Success - advertised item  Main Menu  ---------------  - Advertise -  - Add Credit -  - Logout -  Enter command:  Exited Session |
| advertise5 | Error Test to see if the item name is inputted | User01  Advertise  \_  logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Enter Item Name:  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Error - Item Name must be between 1 -25 Characters  Enter Item Name:  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise6 | Error Test to see what happens when item name exceeds 25 characters | User01  Advertise  ComputerComputerComputer1  logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Error - Item Name must be between 1 -25 Characters  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| Advertise7 | Error Test to see if Minimum bid is a number | User01  Advertise  Computer  123a  logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid:  Error - Minimum Bid must be a number  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session: |
| advertise8 | Error Test to see if Minimum Bid is entered | User01  Advertise  Computer  \_  logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid:  Error - Minimum Bid must have a value  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exiting Session |
| advertise9 | Error Test to see if Minimum Bid does not exceed the maximum price | User01  Advertise  Computer  1999.99  Logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid:  Error - Minimum Bid must be between 0 - 999.99  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise10 | Error test to see if the number of days is an integer | User01  Advertise  Computer  150  1 day  logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid  Enter Duration of Auction (Days):  Error - Auction Duration must be a number  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise11 | Error test to see if the number of days is entered | User01  Advertise  Computer  150  -  logout | **--** | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid  Enter Duration of Auction (Days):  Error - Auction Duration must be inputted  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |
| advertise12 | Error test to see if the number of days exceeds the maximum duration | User01  Advertise  Computer  150  101  logout |  | Enter Username:  Welcome, User01 to the Auction Service  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Enter Item Name:  Enter Minimum Bid  Enter Duration of Auction (Days):  Error - Auction Duration must be between 1-100 days  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter Command:  Exited Session |

**Transaction: Add Credit**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| add\_credit1 | Admin entered a credit amount that is within the limit | Login  User01  Add credit  1000  123456789ABCDEF  Logout | 123456789ABCDEF AA 000001000 | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  Enter the user you want to add the credit too:  $1000, worth of credit added to 123456789ABCDEF  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| add\_credit2 | Admin entered an amount that exceeds the session limit | Login  User01  Add credit  1001  Logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  Session credit limit exceeded - cannot add more then $1000 at a time  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| add\_credit3 | Admin entered a credit amount that exceeds the maximum limit of 999,999 | Login  User01  Add credit  10  Logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  Max credit limit of 999,999 exceeded  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| add\_credit4 | Admin entered non-numeric characters in the credit field | Login  User01  Add credit  DEF44HGD  Logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  Credit amount invalid - please enter a numeric value  re-prompt for credit  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| add\_credit5 | Admin entered a username that does not exists | Login  User01  Add credit  1000  123456789ABCDEG  Logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  Enter the user you want to add the credit too:  Error - Username not found  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| add\_credit6 | User entered to add credit within session limit | User02  Add credit  100  logout | 123456789ABCDEF FS 000000100 | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  $1000, worth of credit added to User02  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| add\_credit7 | User entered to add credit greater then session limit | User02  Add credit  1001  logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter amount of credit you want to add:  Session credit limit exceeded - cannot add more then $1000 at a time  re-prompt for credit  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |

**Transaction: Refund**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| refund1 | Refund transaction is successful using admin account | Login  User01  refund  User03  User04  100  logout | 05 User03 User04 100 | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter buyer’s username:  Enter seller’s username:  Enter refund amount:  $100 refunded from User04 to User04  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| refund2 | Refund transaction is unsuccessful due to invalid account type (not an admin) | Login  User02  Refund  logout | -- | Enter a username to login:  Welcome, User02 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Access Denied - Inadequate permissions  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| refund3 | Admin user enters a buyer username that does not exist | Login  User01  Refund  User55  User02  100  logout | -- | Enter a username to login:  Welcome, User01 to the Auction Service.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter buyer’s username:  Enter seller’s username  Enter refund amount:  Error - Buyer username not found  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| refund4 | Admin user enters a seller username that does not exist | Login  User01  Refund  User01  User55  100  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User01.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter buyer’s username:  Enter seller’s username  Enter refund amount:  Error - Seller username not found  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting Session. |
| refund5 | Admin user enters a non-numeric refund credit amount | Login  User01  Refund  User03  User04  Ten dollars  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User01.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter buyer’s username:  Enter seller’s username  Enter refund amount:  Error - Invalid credit amount entered.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| refund6 | Admin user enters nothing to refund credit amount | Login  User01  Refund  User03  User04  “ “  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User01.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter buyer’s username:  Enter seller’s username  Enter refund amount:  Error - Invalid credit amount entered. Must be between 1 - 999,999.99  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| refund7 | Admin user enters a refund credit that exceeds the constraint | Login  User01  Refund  User03  User04  1,000,000  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User01.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter buyer’s username:  Enter seller’s username  Enter refund amount:  Error - Invalid credit amount entered. Must be between 1 - 999,999.99  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |

**Transaction: Bid**

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| **Test Name** | **Description** | **Input** | **Output File** | **Output Terminal** |
| bid1 | Bid transaction is successful | User01  Bid  Computer  6  User02  60  Logout | 04 Computer User02 User01 00006000 | Enter Username:  Welcome to the Auction Service. Welcome, User01.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter Item Name:  Enter number of days to auction:  Enter Seller Username:  The current highest bid for this item is $55.00.  Enter a new bid amount:  Success - Your bid has been placed.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting session |
| bid2 | Bid transaction unsuccessful due to restricted account type of sell-standard | User04  Bid  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User04.  Main Menu  ---------------  - Advertise -  - Logout -  Enter a command:  Error - Invalid command  Enter a command:  Exiting Session. |
| bid3 | Bid transaction unsuccessful due to non-existing item name. | User02  Bid  Computer  6  User01  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User03.  Main Menu  ---------------  - Bid -  - Logout -  Enter a command:  Enter Item Name:  Enter number of days to auction:  Enter Seller Username:  Error - This item does not exist  Main Menu  ---------------  - Bid -  - Logout -  Enter a command:  Exiting Session. |
| bid4 | Bid transaction unsuccessful because new bid is lower than the previous highest bid | User02  Bid  Computer  6  User02  50  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User02.  Main Menu  ---------------  - Advertise -  - Bid -  - Logout -  Enter a command:  Enter Item Name:  Enter number of days to auction:  Enter Seller Username:  The current highest bid for this item is $55.00.  Enter a new bid amount:  Error - bid amount must be higher than the current highest bid.  Main Menu  ---------------  - Advertise -  - Bid -  - Logout -  Enter a command:  Exiting Session. |
| bid5 | Bid transaction unsuccessful because new bid is not at least 5% higher than the previous highest bid. | User02  Bid  Computer  6  User02  55.50  Logout | -- | Enter Username:  Welcome to the Auction Service. Welcome, User02.  Main Menu  ---------------  - Advertise -  - Bid -  - Logout -  Enter a command:  Enter Item Name:  Enter number of days to auction:  Enter Seller Username:  The current highest bid for this item is $55.00.  Enter a new bid amount:  Error - bid amount must be at least 5% higher than the current highest bid.  Main Menu  ---------------  - Advertise -  - Bid -  - Logout -  Enter a command:  Exiting Session. |
| bid6 | Bid transaction successful with a bid less than 5% higher while in privileged mode | User01  Bid  Computer  6  User02  55.50  Logout | 04 Computer User02 User01 00005550 | Enter Username:  Welcome to the Auction Service. Welcome, User01.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Enter Item Name:  Enter number of days to auction:  Enter Seller Username:  The current highest bid for this item is $55.00.  Enter a new bid amount:  Success - Your bid has been placed.  Main Menu  ---------------  - Create -  - Delete -  - Advertise -  - Bid -  - Refund -  - Add Credit -  - Logout -  Enter a command:  Exiting Session. |

**Test Plan**

**Organization**

Tests will be organized in a “tests” directory containing four subdirectories for input, terminal output, transaction file output, and expected output files (text file printouts for comparison). Tests for each transaction will be named according to the transaction name followed by the test number (ie: transaction\_name#).

Test files for inputs will have the .in file extension (ex: login1.in), terminal output files will have the .out file extension (login1.out), transaction files will have the .etf file extension (login1.etf), and finally expected output files will carry the .txt file extension (login1.txt).

**Run Plan**

Testing runs will use a DOS batch command script in order to run the front end for all of the test input files and save the output in files in order to compare it to the corresponding expected output file. Tests will run beginning with the least complex tasks moving to the more complex tasks (login → logout → create account → delete → advertise → bid → refund) in order ensure that simple tasks are working correctly before moving on to larger ones that may rely on these simpler tasks. Finally, we will check that the test output is correct by comparing them to our expected output files (text file printouts for comparison).

**Requirements Issues and assumptions**

The requirements document does not specify any specific user interface therefore, we assume that the program will have a console interface featuring a login followed by a menu system based on the logged in user type in order to display different “views” for each user type.