Test Cases

Check Login Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | Check response when valid username and password is entered. | Login  MR.RUNESCAPEMAN  buyinggf20k | Enter Command:  Enter Username:  Enter Password:  Welcome, MR.RUNESCAPEMAN! |
| 2 | Check Login response when invalid username or invalid password is entered. | Login  MR.RUNESCAPEMAN  Iamcool | Enter Command:  Enter Username:  Enter Password:  Error: Incorrect Username or Password |
| 3 | Check Login with valid Admin | Login  ADMIN BOY  AdPass123 | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY |
| 4 | User inputs invalid commands on login screen | logout | Enter Command:  Error: You must enter login or create |
| 5 | A disabled user attempts to login | Login  MR.RUNESCAPEMAN  buyinggf20k | Enter Command:  Enter Username:  Enter Password:  Error: Your account is disabled, you cannot login |
| 6 | A user who has created an account but admin has not approved it yet | Login  Newjohn123  hello0 | Enter Command:  Enter Username:  Enter Password:  ERROR: Your account is still awaiting admin approval |

Admin Functionality: Check Delete Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | Admin successfully deletes existing user | Login  ADMIN BOY  AdPass123  delete  Test123  Yes | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Username to delete:  Are you sure you want to delete user: test123 (Yes/No)  User test123 has been deleted |
| 2 | Admin inputs valid data but declines confirmation | Login  ADMIN BOY  AdPass123  delete  Test123  No | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Username to delete:  Are you sure you want to delete user: test123 (Yes/No)  Delete process aborted. Sending you back to main menu |
| 3 | Admin inputs valid data but inputs invalid confirmation | Login  ADMIN BOY  AdPass123  delete  Test123  Blarg | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Username to delete:  Are you sure you want to delete user: test123 (Yes/No)  Error: invalid confirmation |
| 4 | Admin attempts to delete non-existing user | Login  ADMIN BOY  AdPass123  delete  ChickenNuggie | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Username to delete:  ERROR: User does not exist. |
| 5 | Admin attempts to delete themselves | Login  ADMIN BOY  AdPass123  delete  ADMIN BOY  Yes | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Username to delete:  Are you sure you want to delete user: ADMIN BOY (Yes/No) |

Admin Functionality: Check Refund Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | Admin issues a valid refund | Login  ADMIN BOY  AdPass123  Refund  ABC123  Yes | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Transaction ID to refund:  Are you sure (Yes/No) |
| 2 | Admin issues a refund with invalid transaction ID | Login  ADMIN BOY  AdPass123  Refund  qq  Yes | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Transaction ID to refund:  Error: Transaction ID does not exist |
| 3 | Admin inputs correct information but declines confirmation | Login  ADMIN BOY  AdPass123  Refund  ABC123  No | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Transaction ID to refund:  Are you sure (Yes/No)  Refund attempt aborted |
| 4 | Admin inputs correct information but invalid confirmation | Login  ADMIN BOY  AdPass123  Refund  ABC123  akg | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Enter Transaction ID to refund:  Are you sure (Yes/No)  Error: invalid confirmation |

User Functionality: Check Create Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | A new user attempts to create a user with valid data | Create  ValidUsername  ValidPassword  FS | Enter Command:  Enter Username:  Enter Password:  Please select User type BS - Buy-standard, SS - Sell-standard, FS - Full Standard  Successfully created new user, welcome ValidUsername! |
| 2 | A new user attempts to create a user with invalid username | Create  MoreThan15CharactersLong | Enter Command:  Enter Username:  Error: Username is too long and must be 15 characters or fewer. |
| 3 | A user attempts to create a user with an existing name | Create  Alreadytaken | Enter Command:  Enter Username:  Error: Username is already taken. |
| 4 | A new user attempts to create an account with an invalid password | Create  Yeehaw1265  GimmeThemChickenStrips | Enter Command:  Enter Username:  Enter Password:  Error: Password must be 12 characters or less |
| 5 | A new user attempts to create an account with an invalid password | Create  Yeehaw1265  Chicken Strips | Enter Command:  Enter Username:  Enter Password:  Error: Password cannot contain a space |
| 6 | A user attempts to create a user with invalid user type | Create  ValidUsername  ValidPassword  ZZ | Enter Command:  Enter Username:  Enter Password:  Please select User type BS - Buy-standard, SS - Sell-standard, FS - Full Standard  Error: User type is invalid |

Full Standard / Seller-Standard: Advertise Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | User inputs a valid item to advertise | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 15.99 7 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter item name:  Please enter minimum starting bid:  Please enter number of days to auction:  You have put up Item1 for auction for 7 days with a minimum bid of $15.99 |
| 2 | User inputs an invalid item name to advertise | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  OhGoshLongerthan19characters | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter item name:  Error: Item name is too long and must be under 19 or fewer characters. |
| 3 | User inputs an invalid item name to advertise | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  65456 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Error: Item name requires minimum of 1 alphabetical letter |
| 4 | User inputs an invalid bid number below minimum value | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 -1.00 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Please enter minimum starting bid:  Error: Minimum bid must be at least $0.01 |
| 5 | User inputs an invalid bid number above maximum value | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 1000.00 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Please enter minimum starting bid:  Error: A bid has a maximum of $999.99 |
| 6 | User inputs an invalid non numerical bid value | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 1ABC1 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Please enter minimum starting bid:  Error: A bid can only be between $0.01 and $999.99 |
| 7 | User inputs an invalid number of days until auction ends | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 15.99  -1 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Please enter minimum starting bid:  Please enter number of days to auction:  Error: There must be a minimum of 1 day to auction the item |
| 8 | User inputs an invalid number of days until auction ends | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 15.99  auctionEndDate: 255 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Please enter minimum starting bid:  Please enter number of days to auction:  Error: You can only auction an item up to 100 days |
| 9 | User inputs an invalid number of days until auction ends | Login  MR.RUNESCAPEMAN  buyinggf20k  Advertise  Item1 15.99  1ABC1 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Please enter item name:  Please enter minimum starting bid:  Please enter number of days to auction:  Error: You must enter a number of days between 1 and 100 inclusive. |
| 10 | Buy Standard user attempts to access Advertise functionality | Login  BuyingMan  TonsOfMoney  Advertise | Enter Command:  Enter Username:  Enter Password:  Welcome BuyingMan!  Enter Command:  Error: Buyer type accounts cannot advertise items. |

Full Standard / Buy-Standard: Bid Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | User inputs a valid a Bid | Login  MR.RUNESCAPEMAN  buyinggf20k  Bid  johnnyDogs  John Boy  Yes  $99.99 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Current bid: $15.39  Would you like to bid on it? (Yes/No)  How much would you like to bid (Min Bid: $16.16)?  Bid of $99.99 has been placed |
| 2 | User inputs an non-existing item | Login  MR.RUNESCAPEMAN  buyinggf20k  Bid  gfjdsbsfddfi  John Boy | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Item cannot be found |
| 3 | User inputs an invalid seller name | Login  MR.RUNESCAPEMAN  buyinggf20k  Bid  johnnyDogs  OhGoshANameLongerthan15Characters | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Error: Cannot find a seller with that name |
| 4 | User inputs an invalid bid | Login  MR.RUNESCAPEMAN  buyinggf20k  Bid  johnnyDogs  John Boy  New Bid: -0.01 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Current bid: $15.39  Would you like to bid on it? (Yes/No)  How much would you like to bid (Min Bid: $16.16)?  Error: New bid is less than the previous highest bid |
| 5 | User inputs a bid that is not 5% higher than the previous bid | Transaction code: bid  Item Name: johnnyDogs  Seller’s Name: John Boy  New Bid: 16.00 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Current bid: $15.39  Would you like to bid on it? (Yes/No)  How much would you like to bid (Min Bid: $16.16)?  Error: New bid must be 5% higher than the previous highest bid |
| 6 | User bids on their own item | Login  John Boy  LongJohn  Bid  johnnyDogs  Seller’s Name: John Boy | Enter Command:  Enter Username:  Enter Password:  Welcome John Boy!  Enter Command:  Enter an item:  Enter the seller’s name:  Error: You cannot bid on your own items. |
| 7 | User bids max amount | Login  MR.RUNESCAPEMAN  buyinggf20k  Bid  johnnyDogs  John Boy  Yes  $999.99 | Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Current bid: $15.39  Would you like to bid on it? (Yes/No)  How much would you like to bid (Min Bid: $16.16)?  Max amount has been reached, you win the auction. |
| 8 | User inputs an invalid bid | Login  MR.RUNESCAPEMAN  buyinggf20k  Bid  johnnyDogs  John Boy  New Bid: 99999.99 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Enter an item:  Enter the seller’s name:  Current bid: $15.39  Would you like to bid on it? (Yes/No)  How much would you like to bid (Min Bid: $16.16)?  Error: The maximum amount you can bid is $999.99 |

Full Standard: Add Credit Functionality

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | Admin adds credit to another user with correct data input | Login  ADMIN BOY  AdPass123  addCredit  INeedMoney 500.00 | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Input user to add credit to:  Input credit amount:  INeedMoney has received $500.00 |
| 2 | Admin adds credit to non-existing user | Login  ADMIN BOY  AdPass123  addCredit  IDontExist | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Input user to add credit to:  Error: User does not exist. |
| 3 | Admin adds credit to user with invalid credit amount | Login  ADMIN BOY  AdPass123  addCredit  INeedMoney  0.00 | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Input user to add credit to:  Input credit amount:  Inform the admin the credit amount must be at minimum $0.01 |
| 4 | Admin adds credit to user with invalid credit amount | Login  ADMIN BOY  AdPass123  addCredit  INeedMoney  ABC | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Input user to add credit to:  Input credit amount:  Error: Credit amount must be numeric and must be at minimum $0.01 |
| 5 | Admin adds credit to user with invalid credit amount | Login  ADMIN BOY  AdPass123  addCredit  INeedMoney  -0.01 | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Input user to add credit to:  Input credit amount:  Error: Credit amount must be numeric and must be at minimum $0.01 |
| 6 | Admin adds credit to user that has received $1000 in current session | Login  ADMIN BOY  AdPass123  addCredit  INeedMoney  creditSession: 800.00 addCredit  INeedMoney  300.00 | Enter Command:  Enter Username:  Enter Password:  Welcome admin ADMIN BOY!  Enter Command:  Input user to add credit to:  Input credit amount:  INeedMoney has received $1000.00  Input user to add credit to:  Input credit amount:  Error: user has already received $800 and the maximum amount they can receive per session is $1000 |
| 7 | Full Standard user adds credit to own account with correct data input | Login  MR.RUNESCAPEMAN  buyinggf20k  addCredit  500.00 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Input credit amount:  $500.00 has been added to your account. |
| 8 | Full Standard user adds credit to own account with incorrect credit amount | Login  MR.RUNESCAPEMAN  buyinggf20k  addCredit  -0.01 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Input credit amount:  Error: Credit amount must be a minimum of $0.01 |
| 9 | Full Standard user adds credit to own account with incorrect credit amount | Login  MR.RUNESCAPEMAN  buyinggf20k  addCredit  ABC | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Input credit amount:  Error: Credit amount must be numeric and a minimum of $0.01 |
| 10 | Full Standard user adds credit to own account with incorrect credit amount | Login  MR.RUNESCAPEMAN  buyinggf20k  addCredit  0.00 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Input credit amount:  Error: Credit amount must minimum be a minimum of $0.01 |
| 11 | Full Standard user adds credit to own account exceeding credit session | Login  MR.RUNESCAPEMAN  buyinggf20k  addCredit  800.00  addCredit  300.00 | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command:  Input credit amount:  $800.00  Enter Command:  Input credit amount:  Error: User has already received $800 and the maximum amount they can receive per session is $1000 |

Update Functionality - Needs to check if password is valid (12 characters or less and no spaces)

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| 1 | Admin disables an enabled user | Login  Admin  Zip123  Update  John123  disable  Y | Enter Command:  Enter Username:  Enter Password:  Welcome Admin Admin!  Enter Command:  Enter Username:  Enter Command:  Do you want to Disable this user?(Y/N)  John123’s account has been disabled |
| 2 | Admin enabled a disabled user | Login  Admin  Zip123  Update  John123  enable  Y | Enter Command:  Enter Username:  Welcome Admin Admin!  Enter Password:  Enter Command:  Enter Username:  Enter Command:  Do you want to enable this user?(Y/N)  John123’s account has been enabled |
| 3 | Admin attempts to disable a user that does not exist | Login  Admin  Zip123  Update  John123 | Enter Command:  Enter Username:  Enter Password:  Welcome Admin Admin!  Enter Command:  Enter Username:  Error: User does not exist |
| 4 | Admin attempts to disable a user that is already disabled | Login  Admin  Zip123  Update  John123  disable | Enter Command:  Enter Username:  Enter Password:  Welcome Admin Admin!  Enter Command:  Enter Username:  Enter Command:  ERROR: This account is already disabled |
| 5 | Admin attempts to enable a user that is already enabled | Login  Admin  Zip123  Update  John123  enable | Enter Command:  Enter Username:  Enter Password:  Welcome Admin Admin!  Enter Command:  Enter Username:  Enter Command:  ERROR: This account is already enabled |
| 6 | A User changes their password | Login  john123  hello  changePassword  Password  Password | Enter Command:  Enter Username:  Enter Password:  Welcome john123!  Enter Command:  New Password:  Confirm Password:  Your Password has been changed |
| 7 | A User does not confirm password | Login  john123  hello  changePassword  Password  Password1 | Enter Command:  Enter Username:  Enter Password:  Welcome john123!  Enter Command:  New Password:  Confirm Password:  ERROR: The passwords you entered do not match |
| 8 | A User enters an invalid password | Login  john123  hello  changePassword  Password 1  Password 1 | Enter Command:  Enter Username:  Enter Password:  Welcome john123!  Enter Command:  New Password:  Confirm Password:  ERROR: The password you entered cannot have spaces |
| 9 | A User enters an invalid password | Login  john123  hello  changePassword  Longerthan12characters | Enter Command:  Enter Username:  Enter Password:  Welcome john123!  Enter Command:  New Password:  ERROR: The Password cannot be longer than 12 characters. |
| 10 | A user enters no characters | Login  HECKING COOLMAN  Chimmychonga  changePassword  \_ | Enter Command:  Enter Username:  Enter Password:  Welcome HECKING COOLMAN!  Enter Command:  New Password:  ERROR: You must enter a new password |

Non Admin Errors

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| 1 | Non-Admin attempts to access delete functionality | Login  BABYODA  Zip123  delete | Enter Command:  Enter Username:  Enter Password:  Welcome BABYODA!  Enter Command:  ERROR: You must be an admin to access this transaction |
| 1 | Non-Admin attempts to access refund functionality | Login  BABYODA  Zip123  refund | Enter Command:  Enter Username:  Enter Password:  Welcome BABYODA!  Enter Command:  ERROR: You must be an admin to access this transaction |
| 1 | Non-Admin attempts to access update functionality | Login  BABYODA  Zip123  update | Enter Command:  Enter Username:  Enter Password:  Welcome BABYODA!  Enter Command:  ERROR: You must be an admin to access this transaction |

Check Items - Full Standard / Sell Standard should check on their auctioned items

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| Test Case ID | Test Scenario | Test Data / Input | Expected Result / Output |
| 1 | Full Standard user should check on their auctioning items | Login  MR.RUNESCAPEMAN  buyinggf20k  checkAuctionItems | Enter Command:  Enter Username:  Enter Password:  Welcome MR.RUNESCAPEMAN!  Enter Command: |
| 2 | Sell Standard user should check on their auctioning items | Login  SellerMan  DankItems  checkAuctionItems | Enter Command:  Enter Username:  Enter Password:  Welcome SellerMan!  Enter Command: |
| 3 | Buy Standard user attempts to access auctioning item | Login  BuyingMan  TonsofMoney  checkAuctionItems | Enter Command:  Enter Username:  Enter Password:  Welcome Buyingman!  Enter Command:  Error: Buyer type account cannot check auctioned items |