1   Test Driven Development

Test cases will be provided in the form of a table as follows:

Test ID	TUC1a
Category	Sign-Up and Sign-In
Requirements Coverage	UC1-Successful-User-SignUp-Option
Initial Condition	The system has been initiated and runs
Procedure	1. The user selects the sign-up button
Expected Outcome	The welcome window that includes the Sign-In and Sign-Up UI window closes, and the Sign-Up form UI window opens
Notes	

Test ID	TUC1.1
Category	New user credentials can be entered and stored in DataBase using sign-up
Requirements Coverage	UC1.1-Successful-User-SignUp
Initial Condition	The system has been initiated and runs. The user has already clicked the Sign-Up button in the previous UI window.
Procedure	1. The user provides their first name 2. The user provides their last name 3. The user provides their street address 4. The user provides their street number 5. The user provides their postal code 6. The user provides their city 7. The user provides their country 8. The user provides their user name 9. The user provides their password 10. the user presses the 'submit' button
Expected Outcome	The information is stored into a User-Database and will be used to check against when there is a sign in the future.
Notes	The user should provide a unique alphanumeric user names and passwords which is atleast 8 characters long, with mixed case letters, number(s), and a special character.

Test ID	TUC1b

Category	Sign-Up and Sign-In
Requirements Coverage	UC1-Successful-User-SignIn-Option
Initial Condition	The system has been initiated and runs.
Procedure	1. The user selects the sign-in button
Expected Outcome	The welcome window that includes the Sign-In and Sign-Up UI window closes, and the Sign-Ip form UI window opens
Notes	

Test ID	TUC1.2
Category	Evaluation of user credentials stored on file or DB
Requirements Coverage	UC1.2-Successful-User-Login
Initial Condition	*The system has been initiated and runs*. The user has already clicked the Sign-In button in the previous UI window.
Procedure	1. The user provides a user name 2. The user provides a password 3. The user presses the 'submit' button 4. The user logs-in into the system and is presented with the main UI window
Expected Outcome	the login form closes, and the user is presented with the main UI window
Notes	the user should provide only alphanumeric user names and password that matches to the credentials in the database

Test ID	TUC1.2a
Category	Evaluation of user credentials stored on file or DB
Requirements Coverage	UC1.2-Successful-User-Login
Initial Condition	The system has been initiated and runs. The user has already clicked the Sign-In button in the previous UI window.
Procedure	1. The user provides a user name 2. The user selects the 'Forgot Password' button 3. The user is presented with a new Window UI 4. The user provides a new password 5. The user provides a confirmation of the new password 6. The user presses the 'submit' button

Expected Outcome	The forgot password window closes and brings the user back to the login UI
Notes	the user should provide only alphanumeric user names and password that matches to the credentials in the database

Test ID	TUC1.2b
Category	Evaluation of user credentials stored on file or DB
Requirements Coverage	UC1.2-Forgot-Password-User-Login
Initial Condition	The system has been initiated and runs. The user has already clicked the Sign-In button in the previous UI window.
Procedure	1. The user provides a user name 2. The user provides a password 3. The user logs-in into the system and is presented with the main UI window
Expected Outcome	the login form closes, and the user is presented with the main UI window. The password is replaced and stored into a User-Database and will be used to check against when there is a sign in the future.
Notes	The user should provide a unique alphanumeric user names and passwords which is atleast 8 characters long, with mixed case letters, number(s), and a special character.

Test ID	TUC2.1
Category	Browse Catalogue of Auctioned Items
Requirements Coverage	UC2.1-Item-Search
Initial Condition	The user has successfully logged in.
Procedure	1. the user provides a keyword 2. the user presses the 'Search' button
Expected Outcome	The search form closes and opens the list of items available for bidding.
Notes	The output should be generated using the products existing in the database which are available for sale.

Test ID	TUC2.2
Category	Browse Catalogue of Auctioned Items
Requirements Coverage	UC2.2-Display-Auctioned-Items

Initial Condition	The user has successfully logged in.
Procedure	1. the user provides a keyword 2. the user presses the 'Search' button
Expected Outcome	a list of items up for auction (or currently being auctioned) matching the keywords are displayed. The UI should display the items full name, the current bidding price, the type of auction, and the remaining time (applicable only for forward auctions i.e. highest bidder auctions). The output should be generated using the products existing in the database which are available for sale, if not, no items should be displayed.
Notes	the display should have a interactive select section equipped with radio buttons and a 'Bid' button.

Test ID	TUC2.3
Category	Browse Catalogue of Auctioned Items
Requirements Coverage	UC2.3-Item-selection
Initial Condition	The user should have already searched for an item that exists and should be viewing the displayed items
Procedure	1. the user may select one item out of all listings available for sale (using the radio button) 2. the user should press the "Bid" button
Expected Outcome	The product listing window UI should close and a new UI window displaying the details of the selected item.
Notes	a bidder will bid for only one item for each log-in session they have initiated. However the user can have multiple log-in session in parallel in different browsers.

Test ID	TUC3.1
Category	Bidding
Requirements Coverage	UC3.1-Forward-Auction-Bidding
Initial Condition	The user should have selected an item for bidding and pressed the "Bid" button

Procedure	- the users can provide a new bidding price which must be higher that current price - the user should press the "Bid" button
Expected Outcome	The page is refreshed(by the server). the new highest bidding price and the highest bidder are displayed to all users bidding for this item so that the current highest price and the ID of the current highest bidder are always displayed. When the remaining time expires, the auction ends, and all users bidding for this item get the indication (i.e. a web page) that the auction has ended. The users have the option to pay and are served a page with a "Pay Now" button when the time has ended.
Notes	

Test ID	TUC3.2
Category	Bidding
Requirements Coverage	UC3.2-Dutch-Auction-Bidding
Initial Condition	The user should have selected an item for bidding and pressed the "Bid" button
Procedure	the users can select the "Buy Now" button
Expected Outcome	The auction terminates immediately. All user involved in the auction will be displayed a window informing them that the auction is over. The user with the winning bid will be given a window that has the option to "Pay Now" using a button.
Notes	Not all users will get the "Pay Now" option but only one will be successful to obtain the item, i.e. the user that pays the fastest.

Test ID	TUC4a
Category	evaluation of bid handling after auction is over
Requirements Coverage	UC4-Auction-Ended-Expidited-Shipping
Initial Condition	The auction should have officially ended (either time ended for forward auction or because of a "Buy Now" in Dutch auctions). The "Pay Now" page is now opened for the user. The user that won the auction can only have this

	page open. Losers of the auction will be given a failure page.
Procedure	1. the user selects the expedited shipping radio button 2. the user selects the "Pay Now" button
Expected Outcome	The expedited shipment cost is added to the normal shipping price. The expedited shipment cost information can be included in the Catalogue DB for each specific item
Notes	

Test ID	TUC4b
Category	evaluation of bid handling after auction is over
Requirements Coverage	UC4-Auction-Ended-Expidited-Shipping
Initial Condition	The auction should have officially ended (either time ended for forward auction or because of a "Buy Now" in Dutch auctions). The "Pay Now" page is now opened for the user. The user that won the auction can only have this page open. Losers of the auction will be given a failure page.
Procedure	1. the user does not selects the expedited shipping radio button 2. the user selects the "Pay Now" button
Expected Outcome	The expedited shipment cost shouldn't be added to the normal shipping price. The regular shipment cost information can be included in the Catalogue DB for each specific item
Notes	

Test ID	TUC5
Category	evaluation of how sensitive payment information credentials is handled
Requirements Coverage	UC5-Payment
Initial Condition	The auction winner has selected the "Pay Now" button and the payment page is revealed. In the payment page the user should be able to view their personal information they had entered when they signed up. This information is take from the database. The amount should be the item price plus the shipping cost.

Procedure	1. the user fills up the card # field 2. the user fills up the name on the card field 3. the user fills up the expiry date field 4. the user fills up security code field 5. the user presses the "Submit" button
Expected Outcome	the winning bidder should be able to see a receipt and information related to shipping on a new page.
Notes	

Test ID	TUC6a
Category	evaluation of a successful payement going through
Requirements Coverage	UC6-Receipt-Page-and-Shipment-Details
Initial Condition	The user should have pressed the "Submit" button from the previous payment page.
Procedure	N/A
Expected Outcome	The page should reveal the total amount paid and the shipping details. Each item that is purchased might have a separate shipping time, saying that "The Item will be shipped in xxx days". The information should be deposited into Catalogue DB for each item purchased.
Notes	

Test ID	TUC6b
Category	evaluation of a successful payement going through
Requirements Coverage	UC6-Receipt-Page-and-Shipment-Details-Going-Back-to-Main-Page
Initial Condition	The user should have pressed the "Submit" button from the previous payment page. The user should be able to view the total amount paid and the shipping details. Each item that is purchased might have a separate shipping time, saying that "The Item will be shipped in xxx days". The information should be deposited into Catalogue DB for each item purchased.
Procedure	1. the user should select "Back to Main Page"
Expected Outcome	The page should reveal the Main Page that leads to the log in page because one item can be purchased per session.
Notes	

Test ID	TUC7
Category	Selling an item
Requirements Coverage	UC-Sell-Item
Initial Condition	The seller should upload information (including a description of the item to sell, type of auction that is either forward or Dutch, the duration of the auction, the starting bid price) about an item they want to sell.
Procedure	1. the bidder should log in with valid credentials 2. the bidder should search for the item using related keywords to the newly uploaded item
Expected Outcome	The bidder should be able to view the newly uploaded item and its information.
Notes	The seller will upload an item in a separate interface. the seller should have logged out before the bidder logs in to check the item successfully being uploaded.