

User Functions

This section describes the various functionalities a user is entitled to in the web application outside the auction-room interface. The following table charts out the functions necessary to handle use-cases appropriately.

Authentication:

Function	Description
Sign Up	Set name, username, password, contacts, interests
Verify Account	Authenticate registration or password reset
Log In	Direct user to dashboard given correct credentials
Edit Profile	Allows user to edit details of profile
Forgot Password	Allows user to reset password through contacts

Dashboard:

Function	Description
Create Auction	List items + clauses and schedule auction time
Recommendations	Provides user with auctions user might be interested in
Search Options	Allows user to search by tags, description, time, price
View History	Allows user to view completed and scheduled auctions
View Other Profile	Allows user to view profiles of other users

Authentication Use-Cases

Sign Up

Primary Agent: User

Preconditions: None

Main Flow:

- User enters the website and is prompted to register themselves on the website as an account if they are not registered.
- User is asked to give mandatory details such as username, password, name, email contact etc.
- User is also prompted to additional details such as mobile contact details, interests etc.
- User submits details and waits for *verification*.
- *Excpetions:*
- User chooses an already existing username. User is then prompted to choose another username.
- User sets a password which has insufficient strength. User is then prompted to choose new password.
- Both instances of password do not match. User is then prompted to recheck passwords.
- All mandatory fields have not been filled. User is then prompted to fill all mandatory fields.

Log In

Primary Agent: User

Preconditions: Have a registered account

Main Flow:

- User enters the website and is prompted to log in if they have been registered on the website.
- User is prompted to enter username and password to log on to the website.
- If correct credentials are provided, the user is directed to their dashboard page.
- *Excpetions:*
- User enters incorrect credentials. User is then prompted to enter correct credentials.
- User forgets password and is prompted to the *forgot password* routine.

Forgot Password

Primary Agent: Server

Preconditions: Called when user wants to verify account after registration

Main Flow:

- The server sends a message via backup contacts - email or mobile.
 - The user is prompted to click on a link from the afore-mentioned contacts to reset password.
 - The user is then requested to confirm new password.
- Exceptions:*
- Both instances of password do not match. User is then prompted to recheck passwords.
 - User sets a password which has insufficient strength. User is then prompted to choose new password.

Edit Profile

Primary Agent: User

Preconditions: User is logged in

Main Flow:

- User clicks on profile details from the dashboard and chooses to edit profile details excluding username.
 - User fills in new details in a form with details already filled in.
 - User then submits details and profile changes are updated.
- Exceptions:*
- Mandatory fields are not filled. User is then prompted to fill all mandatory fields.

Verify Account

Primary Agent: Server

Preconditions: Called when user has completed filling registration details

Main Flow:

- The server sends a message via backup contacts - email or mobile.
 - The user is prompted to click on a link to redirect themselves to the website's dashboard. The user is also automatically logged in.
- Exceptions:*
- The link for verification has been timed out. User must re-register account.

Dashboard

Create Auction

Primary Agent: User

Preconditions: User is logged in

Main Flow:

- User chooses to create an auction and schedule it for a stipulated time.
 - User is then directed to a page which prompts user to enter details of the auction in stages.
 - User is first prompted to enter details for all items to be presented in the auction. Every item is provided with a name, description, relevant tags, starting price, optional clauses attached etc.
 - User is then prompted to enter general details for the auction. Details include minimum increment for each bid, start-time, end-time, return policies and other clauses.
 - User is finally prompted to fill a questionnaire to generate the license for the auction.
- Exceptions:*
- Mandatory fields have not been filled. User is then prompted to fill missing mandatory fields.
 - No items have been added. User is then prompted to add atleast one item in the auction.
 - Time window entered has already started or passed. User is then prompted to enter a valid time-window.

Recommendations

Primary Agent: Server

Preconditions: User is logged in, presently at the dashboard

Main Flow:

- User is shown a list of upcoming auctions which are relevant to user interests, search history, auction history etc.
 - User can toggle *Number of Auctions per Page* or click on *View More* to view more auctions and their details if necessary.
 - User can select one of the auctions to view details of all items listed on the auction.
 - If interested and the auction is currently going on, the user can click on *Join* to enter the virtual auction-room. The user is first shown the agreement clause to join the auction. The user must also accept the agreement clause before entering the auction-room.
- Exceptions:*
- User does not agree to the agreement clause. The user is then prompted to agree to the clauses.

Search Options

Primary Agent: User

Preconditions: User is logged in

Main Flow:

- User is allowed to search for multiple relevant auctions by various fields. These fields include relevant tags, item description, start-time, end-time, starting prices, popularity (number of attendees) etc.
 - User is then prompted to click *Search* and is then presented with a list of relevant auctions.
 - User can toggle *Number of Auctions per Page* or click on *View More* to view more auctions and their details if necessary.
 - User can select one of the auctions to view details of all items listed on the auction.
 - If interested and the auction is currently going on, the user can click on *Join* to enter the virtual auction-room. The user is first shown the agreement clause to join the auction. The user must also accept the agreement clause before entering the auction-room.
- Exceptions:*
- No search filter is applied. The user is then prompted to make atleast one field non-empty.

- User does not agree to the agreement clause. The user is then prompted to agree to the clauses.
- No match occurs. The user is shown text conveying there are no matches and prompts them to enter alternate key words.

View Auction History

Primary Agent: User

Preconditions: User is logged in

Main Flow:

- User chooses to view auction history by clicking on an appropriate link from the dashboard.
- The user is shown a list of auctions which the user has either attended or hosted.
- The user can select one of the auctions and is directed to the auction page details.
- Details include purchases made in the auction (if any), time spent on the auction date etc. (if the user participated in said auction)
- Details include purchasees, amount paid for all items sold in the auction, and other details entered by the user when the auction was scheduled.

Exceptions:

- No history exists. The user is prompted to search for auctions to join or is prompted to create an auction.

View Other Profiles

Primary Agent: User

Preconditions: User is logged in

Main Flow:

- User can access public profile details by clicking usernames from auction detail pages or auction history pages.
- The user can access the auctions that other users have hosted or attended.