

Create accounts of users; login, logout.

### I. Auctions

- ☒ seller creates auctions and posts items for sale
  - ☒ set all the characteristics of the item
  - ☒ set closing date and time
  - ☒ set a hidden minimum price (reserve)
- ☒ a buyer should be able to bid
  - ☒ let the buyer set a new bid
  - ☒ in case of automatic bidding set secret upper limit and bid increment
  - ☐ alert other buyers of the item that a higher bid has been placed (manual)
  - ☒ alert buyers in case someone bids more than their upper limit (automatic)
- ☒ define the winner of the auction
  - ☒ when the closing time has come, check if the seller has set a reserve
  - ☒ if yes: if the reserve is higher than the last bid none is the winner.
  - ☒ if no: whoever has the higher bid is the winner
  - ☒ alert the winner that they won the auction

### II. Browsing and advanced search functionality

- ☒ let people browse on the items and see the status of the current bidding
- ☒ sort by different criteria (by type, bidding price etc.)
- ☒ search the list of items by various criteria.
- ☒ a user should be able to:
  - ☒ view all the history of bids for any specific auction
  - ☒ view the list of all auctions a specific buyer or seller has participated in
  - ☒ view the list of "similar" items on auctions in the preceding month (and auction information about them)
- ☒ let user set an alert for specific items s/he is interested
  - ☒ get an alert when the item becomes available
- ☒ users browse questions and answers
- ☒ users search questions by keywords

### III. Admin and customer rep functions

- ☒ Admin (create an admin account ahead of time)
    - ☒ creates accounts for customer representatives
    - ☒ generates sales reports for:
      - ☒ total earnings
      - ☒ earnings per:
        - ☒ item
        - ☒ item type
        - ☒ end-user
      - ☒ best-selling items
      - ☒ best buyers
- ☒ Customer representative functions:
  - ☒ users post questions to the customer representatives (i.e. customer service)
  - ☒ reps reply to user questions
  - ☒ edits and deletes account information
  - ☒ removes bids
  - ☒ removes auctions