Team M Final Report: Project Specification and Contributions (SHWN/EWeive)

<u>SU TASKS</u>

1. Process applications and decide who can be OU and who should be denied with justifications.
   - This task is implemented. Super Users can see pending ordinary user applications in a table and review them after a guest user has submitted an application. The super user has a choice to approve or deny the application and send an accompanying message. If the super user approves the application, the guest user becomes an ordinary user and is able to log in. Denying the application means the guest user cannot log in.

2. Process items the OUs submitted intending to sell, some can be publicly available on the system and some may be denied and communicated to the OU.
   - The Super User is the only user that is able to process item and approve/reject an item. Provided with the Process_Items table which lists out the item specifications, title, key_words, seller_id, auction time, and an image address. After reviewing these factors the Super User is prompted to review the specific item and then click the option of "yes" or "no" to approve the item. Once the item is approved it is moved to the marketplace.

3. Send warnings to OUs who received two complaints or the average grade is lower than 2w ith at least 3 evaluators, should an OU receive two warnings this OU should be removed from the system automatically.The SU has the power to remove any OU(s) with justifications at any time
   - The Super user has the authority to remove any ordinary users with justifications at any time.

4. Collect transaction statistics for a certain period (a day or a week)and/or a certain OU(s).
   - This task is implemented. Super Users can navigate to their account page, view all transactions, and filter by the user's id (for either buyer or seller) and/or give a time period between today's date and x days before. The returned table is the filtered. This is done through querying the database.

5.Settle disputes between sellers and buyers and apply warnings/removals accordingly
   - Super users can settle complaints through the "settle complaints" button apart of their account page. Here they can view a list of complaints made by various users and the reasonings. They are prompted to settle the complaint where they can then click "yes" or "no" depending on whether they want to settle. Something we aim to implement in the future is to tie the complaint page with a transaction feature so that the complaint is issued in regard to a specific user and/or item.

OU TASKS

1. Features enjoyed by a GU.
    - Ordinary users can view and search items.

2. Deposit or withdraw money (symbolically, no real money is involved in the system) from own account. After a transaction, the buyer's money is transferred to the seller. A bidder cannot place a bid with amount more than s/he has in the system.
    - Users can deposit or withdraw money if they have a credit card added. Users cannot withdraw more than they have. The transactions are linked. The money being subtracted/added to the right account was added after receiving demo feedback.

3. Submit the bid to buy an available item, the OU who owns the item however decides if this transaction should proceed.
    - This task is implemented. Users can bid on items that are not the ones that they listed. User can only submit a bid higher than the current highest bid for the item

4. Submit the information (a picture or video,title, keywords,time limit, price range) of the item (s) s/he wants to sell.
    - This task is implemented through the OU's account page wherethey are able to submit item information such as title, key_words, seller_id, auction time, and an image address. This is then placed into the Process_Items table with a unique primary key id as well. This item is then pending for SU approval or denial, depending on that is when the item can enter the marketplace.

5. Sell the item(s)s/he posted, the OU may choose whom to sell, if not the highest bidder was chosen, a reason must be provided.
    - This task is implemented. Users can choose who to sell their item to by viewing the list of bidders for their item, but they are not able to submit a reason.

6. File complaints to SUs against certain OUs whose item s/he purchased has some problem.
    - Users can submit a report against items that they view. This is then pushed to the SU to settle or dispute the complaint.

7. Grade an OU after buying an item from him/her, 1 being the worst and 5 being the best. Any OU making 3 1 (worst) or 5(best) ratings to others, the OU must see the SU to make sure there is no problem, a warning or removal could ensure based on SU's judgment.
    - Users can provide a rating of 1-5 and leave a message for their sellers. After clicking on the label form of options 1-5, this value is then placed into the give_ratings table. A

further implementation of this feature would be to connect it to the items page, once an item is purchased the user can then grade.

8. See his/her own transaction history.
   - This task is implemented. Users can navigate to their account page and view all transactions where they are the seller or buyer. This is done through querying the database.

9. Change his/her password, name, address, phone, and credit card number
   - This task is implemented. Users can change their username, phone, email, and password, and add a credit card number.

GU TASKS
1. Browse/search available items based on title, keywords, price range, and ratings;
   - This task is implemented, guest users can search based on title and keywords. They cannot search based on price range and ratings.

2. Report to SU about the suspicious items (stolen) s/he spot from the site, if proven true the SU will remove the item and the CU who posted it and generate a report to be sent to police;
   - This task is implemented, any user can report a stolen item and the SU validates it to be removed from the marketplace, and removes the user who posted it from the database along with all their items.

3. Apply to be an OU.
   - This task is implemented, guest users can apply to be an ordinary user by submitting their username, password, email, and phone number. Guest users must wait for a super user to approve their application to sign in.

SYSTEM CONSTRAINTS
1. OUs removed from the system by SUs will be blocked for future re-application.
   - There exists a blacklist for Ordinary Users removed by an SU. They cannot become an ordinary user again. This is cross-referenced with the unique emails that are in the blacklist, a new user will not be able to apply with that same email address.

2. Items removed from the system by SUs will be black listed from system.
   - This task was implemented, once an SU confirms the report, the item and their owner are blacklisted and removed from the site.

3. The system can distinguish the interest of an OU during the login session and show different GUI according to the users' browsing or selling/buying history. No adaptive GUI for GUs or SUs.
- The GUI included: navbar changes depending on user's username, and bids can be placed only by OUs, but all users can see the dynamic price.

4.GUI is required, could be a local application or web-based one, no preference
- This task was implemented. Bootstrap framework was used for the front end.

5.A creative feature with 10% of the project determined by each team, considerably creative ones (positive outliers) could obtain special bonus.
- This task was not implemented

Team Member Contributions - Evaluation: Divide Grade Equally

Hong Wei Chen: Login/signup, Apply to be OU, Process OU applications, Change User Info, Deposit, Withdraw, Sell Item (user chooses who to sell to), Search for Items and display.

Siema Alam: Created template and set up repository for project and setup instructions, created/managed all frontends for homepage, item page, search page, and account pages. Created import of base html including dynamic navbar to DRY. Set up frontend and backend for functions: place bid, reporting a suspicious item, blocklisting items, validating suspicious items, collecting transaction history, and filtering transactions.

Noel Mathew: Database set up of all tables (User, OUApp, Process_Items, Items, Transactions, Bids, Give_Rating, Complaints, Sus_Reports, Sus_Items, Police_Reports) in sqlAlchemy. Remove User, Submit Item, Process Items, Give User Rating, file complaint, settle complaint functionalities. Created html for each respective functionality.

GIHTUB REPOSITORY:

https://github.com/SHWN-Co/eweive

SIGNATURES

Hong Wei Chen
Siema Alam
Noel Mathew