README

CMPSC431W Phase2 Project

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1. Introduction:

In this project, I finish the database population and Functionality Implementation two parts. I finish both required and extra functionality which are User LogIn, Category Browsing, Auction Listing, Auction Bidding, HelpDesk Support, Account Register Update, Auction Promotion, Searching and Rating.

1. Database design:

In database management and population. I use python code and SQL command to populate database instead of populating data through sql command only.

I use code like:

connection = sql.connect('database.db')

connection.execute('CREATE TABLE IF NOT EXISTS auctionList'

contents = pd.read\_csv('Auction\_Listings.csv', engine='python')

for row in contents.iterrows():

connection.execute('INSERT OR IGNORE INTO auctionList (x) VALUES(?)’,(row[0].abc))

connection.commit()

There are totally 16 table in database I created. Except the 14 table from the dataset. I create two table. The first one is promotions which use to store the promotion list. And the second table I created is noteForLoser which use to store who need to notice that lose the biding. For the ratings table, I add rateId as primary key to make sure one bidder can rate a seller multiple times when they buy multiple products from a same seller. And for the auction list, I add two columns that Current\_Bids to record how many bid the product currently have and the remaining bids can get from Max\_Bids - Current\_Bids. Moreover, I also add the leave reason for the products that leave the market by seller and Current\_Price which is the current price for the bidding.

I change some schema from the provided schema. My designs are that:

users (userId, password)

Helpdesk (userId, position)

requests (request\_id, sender\_email, helpdesk\_staff\_email, request\_type, request\_desc, request\_status)

bidders (userId, first\_name, last\_name, gender, age, home\_address\_id, major)

creditCards (credit\_card\_num, card type, expire\_month, expire\_year, security\_code, Owner\_email)

address (address\_id, zipcode, street\_num, street\_name)

zipcode (zipcode, city, state)

sellers (userId, bank\_routing\_number, bank\_account\_number, balance, rating)

Local\_Vendors(userId, Business\_Name, Business\_Address\_ID, Customer\_Service\_Phone\_Number)

Categories (parent\_category, category\_name)

Auction\_Listings (Seller\_Email, Listing\_ID, Category, Auction\_Title, Product\_Name, Product\_Description, Quantity, Reserve\_Price, Max\_bids, Status, Current\_Bids, Leave\_Reason, Current\_Price)

Bids (Bid\_ID, Seller\_Email, Listing\_ID, Bidder\_email, Bid\_price)

transcationTable (Transaction\_ID, Seller\_Email, Listing\_ID, Buyer\_Email, Date, Payment)

ratings (rateId, Bidder\_Email, Seller\_Email, Date, Rating, Rating\_Desc)

noteForLoser (Note\_ID, Seller\_Email, Listing\_ID, Bidder\_email)

promotions (Seller\_Email, Listing\_ID, Category, Auction\_Title, Product\_Name, Product\_Description, Quantity, Reserve\_Price, Max\_bids, Status, Current\_Bids, Leave\_Reason, Current\_Price)

1. Functionality implementation:

Using session to record the different user and different user type.

1. UserLogin: The user can use the drop-down menu to log in as different users. For the Helpdesk pseudo staff” [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu)”, I create a user in user table for ” [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu)” and password with same words that ” [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu)”. And for bidder can seller, the user can create account, more in AccountRegisterUpdate

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1. CategoryBrowsing: the bidder can choose category and see the different products. The bidder can choose to use different button to choose “Go to subcategory or confrim” or “Go back to last level”. My design is that: 1. When user login successfully, the category default is ALL, and all products will be displayed. 2. When the user selects some category, the products will be displayed include that the product not only under the chosen category but also the product under the subcategory of the current category. I use table to display the products. And there is button for every item in the table. The users can click the button to bid for the products. More detail about bidding in AuctionBidding’s section. Moreover, in this page, the bidder can log out, edit profile, send a request to help desk and search in this page.

电脑萤幕的截图

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1. AuctionBidding: After the user click the button for a product. The system will jump to bid confirm page, which contain the detail of the product, a link to seller page, a textarea that allow user to input price.

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The seller’s email is a link to its main page, all this seller’s products and its rates will be displayed.

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For bidding, the user can input price. And the system will check the status of the bidding. The system will check whether the new price is one dollar higher than the current price. If not, a note will be displayed to say that new price need at least one dollar higher than before.

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And if the bid is submitted successfully, but the bid not finish, the system will go back to the main page and flash a message to notice the bidding is in process and please waiting for finish.

电脑萤幕的截图

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And if the new bidder is the current winner, the system will go back to the main page and flash a message to notice that do not repeat bidding.

电脑萤幕的截图

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And if the current bidding is the last bid, the system will jump a page can let bidder choose a card to pay and input security code for checking. After that, a rating page will be displayed, and the bidder can use this page to rate the seller. More detail for rating in section of the rating.

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1. AuctionListing: When the seller log in successfully, seller will see four table, include the promotion list, the activated product list, the sold product list, and the inactive product list. And the seller also can see its rates. In addition, the seller can edit its products, excepts those have already been sold, add a new product, edit profile, log out, send request to HelpDesk and pay money to promote products in this page. If the seller want to promote some products, they can just click the promotion！button.

图形用户界面

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图片包含 图形用户界面

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The seller can click the edit to edit the product. The seller can update every information except the listing id and seller email. When seller want to make a promoted products inactive, the products will be deleted from the promotion list. This page shows the page to edit product. The system will also catch some illegal input, such as letter for quantity and so on. When the seller want to change the category.

图形用户界面, 文本, 应用程序, 电子邮件

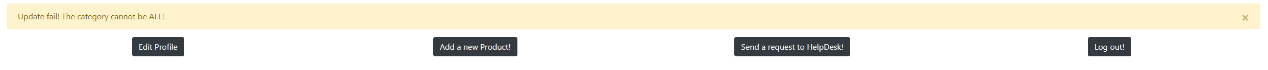
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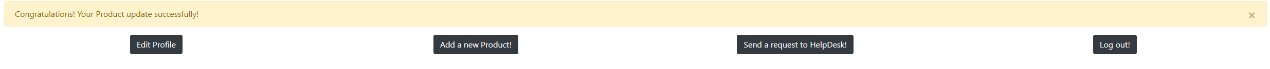
The seller can use this page to choose category and submit its change.

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When the products finish to change, a corresponding message will be flashed to notify the seller whether the update is successful or not.







In addition, the seller can add a new product. The seller needs to input all information of the product. And the system also checks the whether the input is right form and show the corresponding message to notice. Also, when the adding is successful, the system will jump to main page and the corresponding message will be displayed.

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1. HelpDeskSupport: Both bidder and seller can send a request to HelpDesk.

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And all requests will send to the staff [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu). Because the [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu) not in the user.csv, I create a user for it with the password that [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu). The [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu) can see what request is unassigned, assigned, and completed.

电脑萤幕的截图

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After assigned by [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu), the selected user can see the undo task. And the HelpDesk can add a new category by choose a parent category and input the new category’s name. The HelpDesk staff can click the finish button to log the task as completed. Also, the list for [helpdeskteam@lsu.edu](mailto:helpdeskteam@lsu.edu) will also be updated.

图形用户界面

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1. AccountRegisterUpdate: The bidder and seller will be able to edit their profile and create a new account. In the login page, the seller and bidder can click the “<< Create a new account” to create an account by input necessary information. And for editing the profile, both bidder and seller, can update their personal information. Moreover, the system also checks the input such as whether input a number for zipcode and so on.
2. AuctionPromotion: The seller can pay 5% of the reserve price for promotion. If the seller’s balance cannot afford the price of promotion, the promoting will not success. And for the bidder, bidder will always see a table in the top of the listing products which is the promotion list. And the promotion list have a max number of 6, for viewing better.
3. Searching: I implement the searching function by use SQL “like %a%”. And bidder can search the words in auction title, product name, and product description. The searching support partial key words. For example, the searching word can be roll for Steak Rolls
4. Rating: Every time, the bidder buys a product from the seller, the rating will be added to the database, and the overall rating of the seller will be recalculated again by SQL operation. And the bidder can view a seller’s rating by click the seller’s id in product detail page. Moreover, the seller can also view its rating in its main page.