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.

2. 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.

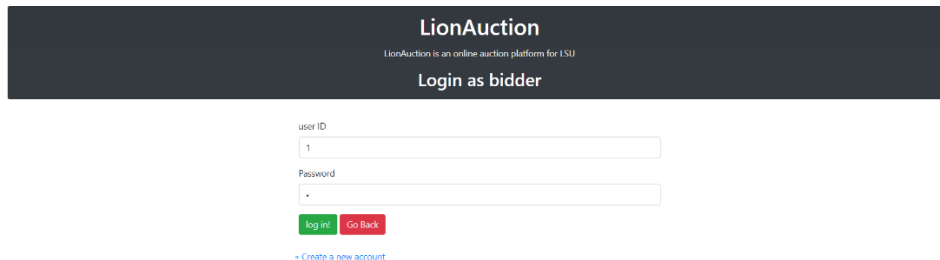I change some schema from the provided schema. My designs are that:

users (<u>userId</u>, password)
Helpdesk (<u>userId</u>, position)
requests (<u>request_id</u>, sender_email, helpdesk_staff_email, request_type, request_desc, request_status)
bidders (<u>userId</u>, first_name, last_name, gender, age, home_address_id, major)
creditCards (<u>credit_card_num</u>, 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)

3. 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", I create a user in user table for " helpdeskteam@lsu.edu" and password with same words that " helpdeskteam@lsu.edu". And for bidder can seller, the user can create account, more in AccountRegisterUpdate

2) 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.

3) 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.

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

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.

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.

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.

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.

LionAuction

Current User: 1

Credit Cards:

American Express

Credit Card Number: XXXX-XXXX-XXXX--1-1

Pay with this card!

LionAuction

Current User: 1

Please input Security Code for card: XXXX-XXXX-XXXX--1-1

security code

1

Submit!

LionAuction

Current User: 1

Congratulations! You buy the Sephora Rouge Gel Lip Liner with $45.0

Please rate the seller: 5

Add some description   5
                                             4
hahaha   3
                                             2
Submit!   1

4) 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.

LionAuction

Current User: wspadell8@lsu.edu
Your current Rate is: 4.578947368421052
Current Balance $373753.65

Recent Rates:

Rate	Description
5.0	Awesome
5.0	Awesome
4.0	Awesome
4.0	Awesome
5.0	shabishshabi shabi
5.0	1
5.0	2
5.0	Awesome
5.0	Awesome
4.0	Awesome
4.0	Awesome
5.0	Awesome
5.0	Awesome
4.0	Awesome
4.0	Awesome
5.0	Awesome
5.0	Awesome
4.0	Awesome
4.0	Awesome

| Edit Profile | Add a new Product! | Send a request to HelpDesk! | Log out! |

Active Promotion List:

Listing ID	Category	Auction Title	Product Name	Product Description	Quantity	Reserve Price	Max bids	Remaining Bids	Current Price
1392	Kitchen & Appliances	Kitchen faucet w sensor	KF with Sensor	Faucets	4	$2400.0	3	2	$1.0

Active Products: (Note: You will pay for 5% of reserved price of promoted product)

Listing ID	Category	Auction Title	Product Name	Product Description	Quantity	Reserve Price	Max bids	Remaining Bids	Current Price	Click to Edit	Click to Promote
747	Bakery & Bread	Freshness Guaranteed Steak Rolls	Steak Rolls	Yummy Rolls	5	$50.0	2	1	$1.0	Edit	Promotion!
1392	Kitchen & Appliances	Kitchen faucet w sensor	KF with Sensor	Faucets	4	$2400.0	3	2	$1.0	Edit	Promotion!
1496	Makeup	Liquid Touch Concealer Brush	Rare Beauty Liquid Touch Brush	Makeup Brush	4	$60.0	3	3	$0.0	Edit	Promotion!
1653	Cooking Accessories	Mixing bowl	McMixing bowl	Bowl	3	$150.0	3	3	$0.0	Edit	Promotion!
1667	Clothing	short skirts	Selby Mini Skirt	short skirts - Classic	4	$360.0	3	3	$0.0	Edit	Promotion!

Sold Products:

Listing ID	Category	Auction Title	Product Name	Product Description	Quantity	Reserve Price	Max bids	Remaining Bids	Final Price
29	Cooking Accessories	Mixing bowl	McMixing bowl	Bowl	2	$150.0	1	0	$1000.0
750	Electric	GlareWheel E8-NTEC1 Green Commuting Electric Bike/Scooter	GW Electric Scooter	Economical	3	$297.0	2	0	$20000.0
2513	Bakery & Bread	Freshness Guaranteed Steak Rolls	Steak Rolls	Yummy Rolls	5	$50.0	3	0	$55.0
2517	Electric	GlareWheel E8-NTEC1 Green Commuting Electric Bike/Scooter	GW Electric Scooter	Economical	3	$297.0	3	0	$301.0

Inactive Products(fail in bidding or cancel auction by seller):

Listing ID	Category	Auction Title	Product Name	Product Description	Quantity	Reserve Price	Max bids	Remaining Bids	Current Price	Click to Edit
555	Clothing	short skirts	Selby Mini Skirt	short skirts - Classic	4	$560.0	6	6	$0.0	Edit

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.

Want to Change Category?

Change Category!

Edit Product Details

List ID (Unchangeable): 747

Category (Edit with button "Change Category"): Bakery & Bread

Auction Title:

Freshness Guaranteed Steak Rolls

Product Name:

Steak Rolls

Product Description:

Yummy Rolls

Quantity:

5

Reserve Price:

$ 50.0

Max bids:

2

Current Bids (Unchangeable): 1

Status (If you want to move an inactive product, you have to check the max bid to):

Activate

Lower Reserve (Only stop a current active bidding):

N/A

Submit!

← Go back to Main Page

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

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.

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

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

After assigned by 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 will also be updated.

6) 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.

7) 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.

8) 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

9) 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.