

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 bidding. 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:

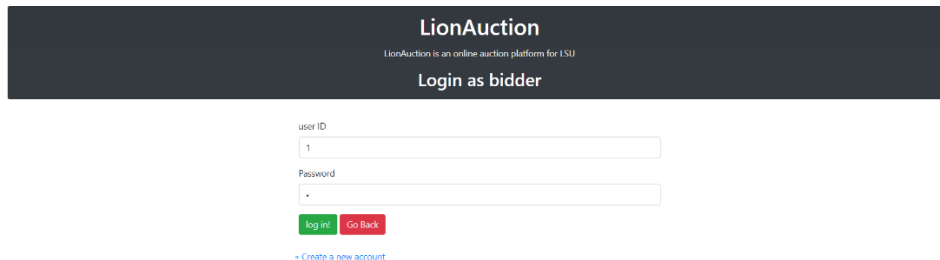
```
users (userId, password)
Helpdesk (userId, position)
requests (request_id, sender_email, helpdesk_staff_email, request_type,
request_desc, request_status)
bidders (userId, first_name, last_name, gender, age, home_address_id, major)
creditCards (credit_card_num, card type, expire_month, expire_year,
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)
 transactionTable (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 confirm" 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.

The screenshot shows the LionAuction homepage. At the top is a dark navigation bar with the site name 'LionAuction' and 'Current User: 1'. Below this is a search bar with a dropdown menu for 'current category: ALL' and a 'Please select a category' button. To the right of the search bar are buttons for 'find subcategory or confirm your choice', 'Go Back to last level', and 'Log out'. Below the search bar is a 'Send a request to HelpDesk' button. The main content area is divided into two sections: 'Sponsored:' and 'Products:'. Each section contains a table with columns: Auction Title, Product Name, Product Description, Quantity, Remaining Bids, Current Price, and Click to bid. The 'Sponsored' table has one row for 'Kitchen faucet w sensor'. The 'Products' table has five rows for various items like 'Freshness Guaranteed Steak Rolls', 'Wilson NCAA Street Shot Outdoor Basketball', and 'Washed Linen Bathrobe'.

- 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 screenshot shows the bid confirm page for 'Freshness Guaranteed Steak Rolls'. The page has a dark header with 'LionAuction' and 'Current User: 1'. Below the header is a 'Product Detail' section with a table containing the following information: Auction Title: Freshness Guaranteed Steak Rolls, Product Name: Steak Rolls, Product Description: Yummy Rolls, Quantity: 5, Available Bids: 2, Current Price: 0.0, and Seller: wspadell@fsu.edu. Below the product details is a 'Enter your bid price here' section with a note: 'Note: A new bid have to at least one dollar higher than the current price.' There is a 'Bid for \$!' button and a '< Previous' button.

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

The screenshot shows the seller page for 'wspadell@fsu.edu'. The page has a dark header with 'LionAuction' and 'Current User: 1'. Below the header is a 'Products' section with a table containing the following information: Auction Title, Product Name, Product Description, Quantity, Remaining Bids, Current Price, and Click to bid. The table has five rows for various items like 'Freshness Guaranteed Steak Rolls', 'Kitchen faucet w sensor', 'Liquid Touch Concealer Brush', 'Mixing bowl', and 'short skirts'. To the right of the products is a 'Recent Rates' section with a table containing the following information: Rate, Description, and a 'Bid' button. The table has five rows for various items like '5.0 Awesome', '5.0 Awesome', '4.0 Awesome', '4.0 Awesome', and '5.0 shahshahshahshahshah'.

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.

LionAuction

Current User: 1

Product Details

Auction Title: Retractable Rouge Gold Lip liner

Product Name: Sophora Rouge Gold Lip liner

Product Description: Lip liner

Quantity: 1

Available Bids: 1

Current Price: 24.0

Seller: sandmol00@lionsdu

Enter your bid price here

Note: A new bid have to at least one dollar higher than the current price.

bid for it

Please input a new price at least \$1 higher than current one.

Previous

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.

LionAuction

Current User: 1

Your bid submit successfully. Please wait patiently for auction finished

current category: ALL

Please select a category Beauty Products

Find subcategory or Confirm your choice

Go Back to last level

Log out

Edit Profile

Search

Go Back!

Send a request to HelpDesk!

Sponsored:

Auction Title	Product Name	Product Description	Quantity	Remaining Bids	Current Price	Click to bid
Kitchen faucet w sensor	KF with Sensor	Faucets	4	7	\$1.0	<div>Bid</div>

Products:

Auction Title	Product Name	Product Description	Quantity	Remaining Bids	Current Price	Click to bid
Freshness Guaranteed Steak Rolls	Steak Rolls	Yummy Rolls	5	1	\$1.0	<div>Bid</div>
Wilson NCAA Street Shot Outdoor Basketball	Wilson Basketball 9"	For WNBA and kids	5	3	\$0.0	<div>Bid</div>
Wilson NCAA Street Shot Outdoor Basketball	Wilson Basketball 9"	For WNBA and kids	5	3	\$0.0	<div>Bid</div>
Washed Lions Bathrobe	Minions Lions Bathrobe	Lions Bathrobe	2	3	\$0.0	<div>Bid</div>

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.

LionAuction

Current User: 1

You are the current winner bidder

current category: ALL

Please select a category Beauty Products

Find subcategory or Confirm your choice

Go Back to last level

Log out

Edit Profile

Search

Go Back!

Send a request to HelpDesk!

Sponsored:

Auction Title	Product Name	Product Description	Quantity	Remaining Bids	Current Price	Click to bid
Kitchen faucet w sensor	KF with Sensor	Faucets	4	2	\$1.0	<div>Bid</div>

Products:

Auction Title	Product Name	Product Description	Quantity	Remaining Bids	Current Price	Click to bid
Freshness Guaranteed Steak Rolls	Steak Rolls	Yummy Rolls	5	1	\$1.0	<div>Bid</div>
Wilson NCAA Street Shot Outdoor Basketball	Wilson Basketball 9"	For WNBA and kids	5	3	\$0.0	<div>Bid</div>
Wilson NCAA Street Shot Outdoor Basketball	Wilson Basketball 9"	For WNBA and kids	5	3	\$0.0	<div>Bid</div>
Washed Lions Bathrobe	Minions Lions Bathrobe	Lions Bathrobe	2	3	\$0.0	<div>Bid</div>

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

hahaha

Submit

5

4

3

2

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: [sagadeh@lga.edu](#)
Your current Rate is: 4.57984738842952
Current Balance: 317.01310

Recent Rates:

Rate	Description
3.0	Awescore
3.0	Awescore
4.0	Awescore
4.0	Awescore
3.0	shabichoshabichabi
3.0	1
3.0	4
3.0	Awescore
3.0	Awescore
4.0	Awescore
4.0	Awescore
3.0	Awescore
3.0	Awescore
4.0	Awescore
4.0	Awescore
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3.0	Awescore
4.0	Awescore
4.0	Awescore

[Edit Profile](#)[Add a new Product](#)[Send a request to HelpDesk](#)[Log out](#)

Active Promotion List:

[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
1302	Kitchen & Appliances	Kitchen faucet w sensor	Ed with Sensor	Faucets	4	\$2800.0	2	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
141	Bakery & Bread	Freshness Guaranteed Steak Rolls	Steak Rolls	Yummy Rolls	5	\$50.0	2	1	\$10	Edit	Promote
1302	Kitchen & Appliances	Kitchen faucet w sensor	Ed with Sensor	Faucets	4	\$2800.0	3	2	\$1.0	Edit	Promote
1399	Makeup	Liquid Youth Concealer brush	Rare beauty liquid youth brush	Making brush	4	\$60.0	2	2	\$10	Edit	Promote
1603	Cooking Accessories	Mixing bowl	Mt-Mixing bowl	Bowl	3	\$100.0	3	1	\$0.0	Edit	Promote
1301	Clothing	short skirts	Selly Mini skirt	short skirts - Classic	4	\$380.0	3	3	\$10	Edit	Promote

Sold Products:

Listing ID	Category	Auction Title	Product Name	Product Description	Quantity	Reserve Price	Max bids	Remaining Bids	Final Price
27	Cooking Accessories	Mixing bowl	Mt-Mixing bowl	bowl	2	\$100.0	1	0	\$1000.0
750	Electric	ClearWheel 88-AT&CT Green Commuting Electric Bike/Scooter	GW Electric Scooter	Economical	2	\$200.0	2	0	\$10000.0
2512	Bakery & Bread	Freshness Guaranteed Steak Rolls	Steak Rolls	Yummy Rolls	5	\$50.0	3	0	\$55.0
2517	Electric	ClearWheel 88-AT&CT Green Commuting Electric Bike/Scooter	GW Electric Scooter	Economical	3	\$200.0	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
155	Clothing	short skirts	Selly Mini skirt	short skirts - Classic	4	\$380.0	6	6	\$0.0	Click to 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.

LionAuction
Current User: [sagadeh@lga.edu](#)

Want to Change Category?

[Change Category](#)

Edit Product Details

List ID (unchangeable): 141

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:

\$ 20.0

Max bids:

2

Current Rate (unchangeable): 1

Notice (If you want to remove an auction product, you have to check the max bid no.):

Auction

Leave reason (Only stop a current active bidding):

No

[Submit](#)

[Go back to Home Page](#)

Windows
9/17/2018 1:50:17 PM

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

LionAuction
Current User: vipash@lionsale.co.uk

Go to category Go to my products Go back to list item

Product Details

Category (select a category)

Product Name

Product Description

Quantity

Reserve Price

Min Bid Price

Save

Windows
100% zoom

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

Update fail! The category cannot be ALL! Edit Profile Add a new Product! Send a request to HelpDesk! Log out!

Congratulations! Your Product update successfully! Edit Profile Add a new Product! Send a request to HelpDesk! Log out!

Update fail! Check the new information you input! Edit Profile Add a new Product! Send a request to HelpDesk! Log out!

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.

LionAuction
Current User: vipash@lionsale.co.uk

Go to category Go to my products Go back to list item

Add a New Product

Product Title

Product Name

Category (select a category)

Product Description

Quantity

Reserve Price

Min Bid Price

Submit

Windows
100% zoom

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

LionAuction
Current User: 1

[Go Back to Main Page](#)

Send a request:

Select a request type:

Request Description:

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.

LionAuction
Current User: helpdeskteam@lsu.edu
[Log out](#)

Unassigned request:

Request ID	Sender Email	Request type	Request Description	Request status	Click to assign a staff
555	wqwe@lsu.edu	AddCategory	123123	0	<div style="border: 1px solid #ccc; padding: 2px;"> Please select a staff: ID: tpktherot@lsu.edu Position: IT Support Specialist </div> <input type="button" value="Assign"/>

Assigned request:

Request ID	Sender Email	HelpDesk Staff Email	Request type	Request Description	Request status
302	eodonchu@lsu.edu	glouwe@lsu.edu	ChangeID	I would like to change my ID to tomy@lsu.edu	0
303	pasoot@lsu.edu	mmamom@lsu.edu	MarketAnalysis	What is the number of transactions by females vs males?	0

Completed request:

Request ID	Sender Email	HelpDesk Staff Email	Request type	Request Description	Request status
101	tpktherot@lsu.edu	tpktherot@lsu.edu	ChangeID	Please change my ID to tpktherot@lsu.edu	1
104	vblackford@lsu.edu	tpktherot@lsu.edu	MarketAnalysis	What is the total amount of sales by bidders younger than 30.	1
105	hambrosing@uol.com.br	tpktherot@lsu.edu	AddCategory	Please ad a new category Turtle under Pets	1
211	lstop@lsu.edu	tpktherot@lsu.edu	AddCategory	Please ad a new category Rabbit under Pets	1
127	mfskyp@angelfire.com	glouwe@lsu.edu	ChangeID	I would like to change my ID to mfskyp@angelfire.com	1
552	tpktherot@lsu.edu	cantonacc@lsu.edu	AddCategory	Please ad a new category Yoga under Exercise & Fitness	1
553	erben@lsu.edu	tpktherot@lsu.edu	AddCategory	ADD NEW AS SUB OF ALL	1

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.

LionAuction
 Current User: tghktham@lhu.edu
[Log out](#)

Todo List:

Request ID	Sender Email	Request Type	Request Description	Request status	Click to log finish
555	wepud@lhu.edu	Add category	1/2/25	0	Finish

Choose parent category of the new category:
 Current Parent Category: Root

Please select a category
Beauty Products
Add subcategory or confirm your choice
Go Back to List Item

enter name of new category

[Submit](#)

- 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.