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Databases I, Winter term 2019-2020
Project Description
"GUCommerce"
Deadline: 18/11/2019

User Stories

As an unregistered User I should be able to:

a) Register to the website by using my name, a unique username, password, and an Email.
Signature:
Name: customerRegister
Input: username varchar(20),first_name varchar(20), last_name varchar(20),password, varchar(20),email varchar(50)
Output: Nothing

Signature:
Name: vendorRegister
Input: username varchar(20),first_name varchar(20), last_name varchar(20),password, varchar(20),email varchar(50), company_name varchar(20), bank _acc _no varchar(20)
Output: Nothing

As any registered User I should be able to:

a) login using my username and password
Signature:
Name: userLogin
Input: username varchar(20), password varchar(20)
Output: success bit , type int
hint: success indicates that the user was found in the table.
type indicates the type of the user : Customer–>0,Vendor–>1, Admin–>2,delivery–>3

b) add my telephone number(s)
Signature:
Name: addMobile
Input: username varchar(20), mobile _number varchar(20)
Output: Nothing

c) add my address(s)
Signature:
Name: addAddress
Input:username varchar(20), address varchar(100)
Output: Nothing

As a Customer I should be able to:

   a) View list of all the products offered on the website.
     Signature:
     Name: showProducts
     Input: Nothing
     Output: RECORDS

   b) order the product by their price ascending.
     Signature:
     Name: ShowProductsbyPrice
     Input: Nothing
     Output: RECORDS

   c) Search products by name.
     Signature:
     Name: searchbyname
     Input: text varchar(20)
     Output: RECORDS.

   d) Post questions related to a specific product.
     Signature:
     Name: AddQuestion
     Input: serial int, customer varchar(20), Question varchar(50)
     Output: Nothing

   e) Add/remove products to my cart.

     Signature:
     Name: addToCart
     Input: customername varchar(20), serial int
     Output: Nothing

     Signature:
     Name: removefromCart
     Input: customername varchar(20), serial int
     Output: Nothing

   f) Create (a) wish list(s).
     Signature:
     Name: createWishlist
     Input: customername varchar(20), name varchar(20)
     Output: Nothing

   g) Add/remove products from my wish list.
     Signature:
     Name: AddtoWishlist
     Input: customername varchar(20), wishlistname varchar(20), serial int
     Output: Nothing

     Signature:
     Name: removefromWishlist

Input: customername varchar(20), wishlistname varchar(20), serial int
Output: Nothing

h) View details of products in my wishlist.
   Signature:
   Name: showWishlistProduct
   Input: customername varchar(20), name varchar(20)
   Output: RECORDS

i) View products that I added to my cart.
   Signature:
   Name: viewMyCart
   Input: customer varchar(20)
   Output: RECORDS

j) make an order from the products I added in the cart.

   Signature:
   it should calculate the sum of all the products in the cart.
   Name: calculatepriceOrder
   Input: customername varchar(20)
   Output: sum decimal(10,2)

   Signature:
   it should get the products in the customer cart and accordingly update table product. Also, it should remove these products from all other users cart.
   Name: productsinorder
   Input: customername varchar(20), orderID int
   Output: RECORDS

   Signature:
   It should empty the cart of customer who made the order
   Name: emptyCart
   Input: customername varchar(20)
   Output: Nothing

   Signature:
   It should create an order with the total amount of the products in the cart. (It should call the other procedures in a specific order)
   Name: makeOrder
   Input: customername varchar(20)
   Output: Nothing

k) Cancel my order as long as the status is one of the following: not processed, or in process.
   Signature:
   Name:cancelOrder
   Input: orderid int
   Output: Nothing

l) Return a delivered product(s).
   Signature:

Name: returnProduct
Input: serialno int, orderid int
Output: Nothing

m) View all the products I previously bought so I can rate any of them.
   Signature:
   Name: ShowproductsIbought
   Input: customername varchar(20)
   Output: RECORDS

n) Rate products I bought on the system.
   Signature:
   Name: rate
   Input: serialno int, rate int , customername varchar(20)
   Output: Nothing

o) Pay in cash or using my credit card partially or totally and update points accordingly.
   Signature:
   Name: SpecifyAmount
   Input: customername varchar(20), orderID int, cash decimal(10,2), credit decimal(10,2)
   Output: Nothing

p) Add as many credit cards as I want.
   Signature:
   Name: AddCreditCard
   Input: creditcardnumber varchar(20), expirydate date , cvv varchar(4), customername varchar(20)
   Output: Nothing

q) choose one credit card to pay the order with.
   Signature:
   Name: ChooseCreditCard
   Input: creditcard varchar(20), orderid int
   Output: Nothing

r) View all the delivery types in the system.
   Signature:
   Name: vewDeliveryTypes
   Input: Nothing
   Output: RECORDS

s) Choose a delivery type for the order and accordignly update the remainingg days.
   Signature:
   Name: specifydeliverytype
   Input: orderID int, deliveryID int
   Output: Nothing

t) Track the delivery status of his/her order(s). (It should update the remaining days and show it to the customer)
   Signature:
   Name: trackRemainingDays
   Input: orderid int, customername varchar(20)

Output: days int

u) As a customer I should get recommendation for products. This is done as follows. We get 6 recommended products according to the following strategy

1.
   - From the items in my cart, we should get the top 3 categories.
   - From these 3 categories, we should recommend **the top 3 wished products**. Note that a product can by wished by many users.

2. From the items in my cart and the items in the carts of the other users, I can get the users that are most similar to me. From these users the system should recommend **their top 3 wished products**

Signature:
Name: recommmend
Input: customername varchar(20)
Output: RECORDs

As an activated Vendor I should be able to:

a) Post products on the system.
Signature:
Name: postProduct
Input: vendorUsername varchar(20), product _name varchar(20) ,category varchar(20), product _description text , price decimal(10,2), color varchar(20)
Output: Nothing

b) View the products I posted on the system.
Signature:
Name: vendorviewProducts
Input: vendorname varchar(20)
Output: RECORDs

c) Edit products I posted on the system.
Signature:
Name: EditProduct
Input: vendorname varchar(20), serialnumber int, product _name varchar(20) ,category varchar(20), product _description text , price decimal(10,2), color varchar(20)
Output: Nothing

d) Delete products I posted on the system
Signature:
Name: deleteProduct
Input: vendorname varchar(20), serialnumber int
Output: Nothing

e) View questions related to my products on the system.
Signature:
Name: viewQuestions
Input: vendorname varchar(20)
Output: RECORDS

f) Answer questions related to my products on the system.
   Signature:
   Name: answerQuestions
   Input: vendorname varchar(20), serialno int, customername varchar(20), answer text
   Output: Nothing

g) create offers on products I posted (one at a time) and update the product's final price accordingly.
   Signature:
   Name: addOffer
   Input: offeramount int, expiry _date datetime
   Output: Nothing

   Signature:
   Name: checkOfferonProduct
   Input: serial int
   Output: activeoffer bit

   Signature:
   Name: checkandremoveExpiredoffer
   Input: offerid int
   Output: Nothing

   Signature:
   Name: applyOffer
   Input: vendorname varchar(20), offerid int, serial int
   Output: Nothing

As an Admin I should be able to:

a) Activate non-activated vendors.
   Signature:
   Name: activateVendors
   Input: admin_username varchar(20),vendor_username varchar(20)
   Output: Nothing

b) Invite delivery persons to the system.
   Signature:
   Name: inviteDeliveryPerson
   Input: delivery_username varchar(20), delivery_email varchar(50)
   Output:

c) Review all the orders made through the website.
   Signature:
   Name: reviewOrders
   Input: Nothing
   Output: Nothing

d) Update the order status to "in process".
   Signature:
   Name: updateOrderStatusInProcess
   Input: order_no int
   Output: Nothing

e) Add new delivery type on the system, specifying its time duration, and fees.
   Signature:
   Name: addDelivery
   Input:delivery_type varchar(20),time_duration int,fees decimal(5,3),admin_username varchar(20)
   Output: Nothing

f) Assign orders to deliver personnel.
   Signature:
   Name: assignOrdertoDelivery
   Input: delivery_username varchar(20),order_no int,admin_username varchar(20)
   Output: Nothing

g) Add a new Today's Deals on products and update the product's final price accordingly.
   Signature:
   Name: createTodaysDeal
   Input: deal_amount int,admin_username varchar(20),expiry_date datetime
   Output: Nothing
   Signature:
   Name: checkTodaysDealOnProduct
   Input: serial_no INT
   Output: activeDeal BIT

   Signature:
   Name: addTodaysDealOnProduct
   Input: deal_id int, serial_no int
   Output: Nothing

   Signature:
   Name: removeExpiredDeal
   Input: deal_iD int
   Output: Nothing

h) Create Gift Cards.
   Signature:
   Name: createGiftCard
   Input: code varchar(10),expiry_date datetime,amount int,admin_username varchar(20)
   Output: Nothing

i) Give Gift Cards to special customers.

   Signature:
   Name:removeExpiredGiftCard
   Input: code varchar(10)
   Output: Nothing

   Signature:
   Name:checkGiftCardOnCustomer
   Input: code varchar(10),
   Output: activeGiftCard BIT

   Signature:
   Name: giveGiftCardtoCustomer

As a delivery personnel I should be able to:

a) Accept the admin invitation to the system.
   Signature:
   Name: acceptAdminInvitation
   Input: delivery_username varchar(20)
   Output: Nothing

b) Add additional credentials to the system other than the username (password.. etc.)
   Signature:
   Name: deliveryPersonUpdateInfo
   Input: username varchar(20),first_name varchar(20),last_name varchar(20),password varchar(20),email varchar(50)
   Output: Nothing

c) View all the orders I am assigned to.
   Signature:
   Name: viewmyorders
   Input: deliveryperson varchar(20)_no int
   Output: RECORDs

d) Specify a delivery window for each customer order.
   Signature:
   Name: specifyDeliveryWindow
   Input:delivery_username varchar(20),order_no int,delivery_window varchar(50)
   Output: Nothing

e) Update the status of an order when it's out for delivery.
   Signature:
   Name: updateOrderStatusOutforDelivery
   Input: order_no int
   Output: Nothing

f) Update the status of an order when it gets delivered.
   Signature:
   Name: updateOrderStatusDelivered
   Input: order_no int
   Output: Nothing