German University in Cairo
Media Engineering and Technology
Prof. Dr. Slim Abdennadher
Dr. Nada Sharaf

<div align="center">

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

</div>

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:
   Name: calculatepriceOrder
   Input: customername varchar(20)
   Output: sum decimal(10,2)

   Signature:
   Name: emptyCart
   Input: customername varchar(20)
   Output: Nothing

   Signature:
   Name: makeOrder
   Input: customername varchar(20)
   Output: Nothing

   Signature:
   Name: productsinorder
   Input: customername varchar(20), orderID int
   Output: RECORDS

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

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

r) Choose a delivery type for the order.
   Signature:
   Name: specifydeliverytype
   Input: orderID int, deliveryID
   Output: Nothing

s) Track the delivery status of his/her order(s).
   Signature:
   Name: trackRemainingDays
   Input: orderid int, customername varchar(20)
   Output: days int

t) 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 itemns in the carts of the other users, I can get the users that are most sinilar to me. From these users the system should recomment **their top 3 wished products**

   Signature:
   Name: recommmend
   Input: customername varchar(20)
   Output: Nothing

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: giveGiftCardtoCustomer
   Input: code varchar(10),customer_name varchar(20),admin_username varchar(20)
   Output: Nothing

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) 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

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

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