CS59P Project Proposal
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POS – Point of Sale Oct 28, 2015

Purpose:
The purpose if this web site is to provide small retailers an on line POS system. The application will provide web pages to manage store inventory, customers, users and capture sale transactions. The web site will also provide a sales table which provides the store owner a list of total sales made with the system.

MySQL Tables:

Products Table

id	id unsigned not null auto_increment primary key
product_upc	tinytext - UPC code of the product
product_desc	tinytext – short description of the product
quantity	integer – the number of product in stock. This field is decremented whenever a sale is completed.
price	float – this is the selling price of the product
cost	float – this is the cost of the product for the retailers
catid	nteger - this specifics the product category from the categories table, foreign key
	Food products — typically require cold storage facilities.
	H**ard goods or durable goods** — automobiles, appliances, electronics, furniture, sporting goods, lumber, etc., and parts for them. Goods that do not quickly wear out and provide utility over time.
	Soft goods or consumables — clothing, other fabrics, footwear, cosmetics, medicines and stationery. Goods that are consumed after one use or have a limited period (typically under three years) in which you may use them.
	Arts — Contemporary art galleries, Bookstores, Handicrafts, Musical instruments, Gift shops, and supplies for them.
available	boolean – is this product available or unavailable for sale
product_notes	longtext – specific notes about a product
last_update	timestamp – provides date and time when the last time record was updated by user. The format is YYYY-MM-DD HH:MM:SS.

User Table

username	varchar (16) primary key
passwrd	char(40) – user's password, password will be encrypted not null
first	tinytext – first name
last	tinytext – last name
email	varchar(100) not null
last_update	timestamp – provides date and time when the last time record was updated by user. The format is YYYY-MM-DD HH:MM:SS.

Customers Table

custmerid	int unsigned not null auto_increment primary key, will also be used as customer number.
name	tinytext – customer name
address	tinytext – customer address
state	tinytext – customer's state
zip	char(10), customer zip code
country	char(20) customer country
last_update	timestamp – provides date and time when the last time record was updated by user. The format is YYYY-MM-DD HH:MM:SS.

Orders Items Table

orderid	id unsigned not null auto_increment
product_upc	tinytext - UPC code of the product - this is a foreign key into product table. This is a mandatory field.
item_price	float – this is the selling price of the product at time of sale
quantity	id unsigned - quantity item sold
primary key	(ordered, product_upc)
last_update	timestamp – provides date and time when the last time record was updated by user. The format is YYYY-MM-DD HH:MM:SS.

Categories Table

catid	id unsigned not null auto_increment primary key
catname	char(60) name of the category

Orders Table

orderid	id unsigned not null auto_increment primary key.
customerid	id unsigned – this is a foreign key into customers table
amount	float – this is the total of the sale transactions includes sales tax.
date	date field, date when order was completed
order_status	char(10), provides the status of the order partial or complete
last_update_date	timestamp – provides date and time when the last time record was updated by user. The format is YYYY-MM-DD HH:MM:SS.

Web Pages:

a) Login Page:
Page to enable the user to login to POS system

b) User Registration Page
Page to enable user to register to the POS system

c) Admin Menu Page
   Page to enable user to perform POS admin functions

d) Add Category
   Page to enable user to add product categories to the POS system

e) Products Page:
   Page enables user to update the product.

f) Change Password
   Page to enable user to change their password

g) Shopping Menu Screen
   Page to enable user to select which category to purchase

h) Select Product to Purchase
   Page enables user to select products within a category

i) Product Selected
   Page to display detailed information of the product

j) Shopping Cart
   Page to display the buyer's shopping cart

k) Check out and enter customer information
   Page to capture customer info and either continue shopping or complete purchase

l) Payment
   Page for customer checkout and obtain credit card payment

m) Order Complete
   Page for completing the order

POS Data and Web Page Flow Diagram

A-login
Page

B-user registration
Page

C-admin menu
Page

F-change password
Page

G- shopping Menu
Page

D- CRUD category
Page

category
Table

E- CRUD product
Page

product
Table

User
Table

E- CRUD user
Page

H- Select Product to purchase
Page

category
Table

I- product selected
Page

product
Table

J-Shopping Cart
Page

order
Table

K- Check out & customer register
Page

order item
Table

L-Payment
Page

customers
Table

M- Order Compete
Page

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Data Flow

Screen Flow