CS 6314 - Assignment#5
Due Date: 12/3/23, 11:59 pm

In this assignment, you're supposed to add Bootstrap, MySQLi and php features to the web application that you developed for assignment #4.

1. Add a page to your web application to register customers in your website. You should ask each customer to enter User Name, Password , FirstName, Last-Name, age, Email, and Address. Before registering each customer, you should validate the user's inputs as following
   • The customer must enter User Name, Password , FirstName, LastName, Date of birth, Email, and Address.
   • The customer must enter the same Password two times.
   • The Password must be at least 8 characters .
   • Date of birth must have 2 digits for month, 2 digits fore day, and four dig-its for year
   • Email must contain @ and .come

After validating the user's inputs, you should assign a unique customer ID to each customer and register each customer by inserting the customer's informa-tion in the customer table and the user table of your database. After inserting the customer 's information into your database successfully, you should prompt that they registered successfully. Then, the user should be able to log in to your web-site using the username and the password.

2. Please create the following tables in your database
   • Inventory: Item number, Name, Category, Subcategory, Unit price, Quan-tity in inventory
   • Customers: Customer ID, First Name, Last Name, Age, Phone number, email and Address
   • Users: Customer ID, User Name, Password
   • Carts: Customer ID, Transaction ID, Item number, Quantity, Cart status
   • Transactions: Transaction ID, Transaction Status,Transaction Date, Total Price

3- Please create a user name and password for the admin. In the my account page, the admin should be able to add new inventory as XML/JSON files to your database. The new inventory for fresh products, frozen products, candies, and snacks categories is XML file. The new inventory for baking products, Breakfast products, and pantry products categories is JSON file. The admin should be able to see the content of the inventory table. The admin should be able to see the list of items that are low in the inventory (less than 3). The admin should be able to enter a specific date and see the list of customers with more than 2 transactions. The admin should be able to enter a zip code and a month and see the cus-tomers who live in the zip code and with more than 2 transactions in the specified

month. The admin should be able to enter a item number and modify the unit price and/or the Quantity in inventory for the item in the inventory table. The admin should be able to see the list of the customers who are older than 20 years old and have move than 3 transactions.

4- In the Fresh products webpage, the user should be able to shop by sub category (shop all, all vegetable, all fruits, pre-cut fruits, flowers, salsa and dips, season produce, new items and rollbacks). When the user selects a category, all items of the selected sub category should be displayed. The user should see name, picture and price of each item. The user should be able to add each item to the cart. The user should be able to add each item multiple times to the cart. For each selected item, If you do not have enough inventory, you should display a message that the item is out stock . When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

5-In the Frozen web page, the user should be able to shop by sub category (shop all, frozen breakfast, frozen dessert, frozen meals frozen pizza, frozen meat, frozen snacks and rollbacks). When the user selects a sub category, all items of the selected sub category should be displayed. The user should see name, picture and price of each item. The user should be able to add each item to the cart. The user should be able to add each item multiple times to the cart. For each selected item, If you do not have enough inventory, you should display a message that the item is out stock. When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

6- In the pantry web- page, the user should be able to shop by sub category (shop all, canned goods, canned vegetable, condiments, peanut butter&spread, pasta&pizza, and roll- backs). When the user selects a sub category, all items of the selected category should be displayed. The user should see name, picture and price of each item. The user should be able to add each item to the cart. The user should be able to add each item multiple times to the cart. For each selected item, If you do not have enough inventory, you should display a message that the item is out stock. When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

7- In the Breakfast and Cereal webpage, the user should be able to shop by sub category (shop all, the cereal shop, pancakes &waffles, breakfast breads, oatmeal &grits and roll- backs). When the user selects a sub category, all items of the selected category should be displayed. The user should see name, picture and price of each item. The user should be able to add each item to the cart. The user should be able to add each item multiple times to the cart. For each selected item, If you do not have enough inventory, you should display a message that the item is out stock. When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

8-In the candy webpage, the user should be able to shop by entering the name of candy. You need to validate user input. The user should not be able to enter any number for the name of candy. If the user input is not valid you should show an error message. If you have the candy in the inventory you should display the name, the price and the picture of the candy. Then the user should be able to en-

ter the amount for the candy and add the candy to the cart. If you do not have enough inventory, you should display a message that the item is out stock. When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

9- In the snacks webpage, the user should be able to shop by entering the name of snacks. You need to validate user input. The user should not be able to enter any number for the name of snacks If the user input is not valid you should show an error message. If you have the snacks in the inventory you should display the name, the price and the picture of the candy. Then the user should be able to enter the amount for the snacks and add the snack to the cart. If you do not have enough inventory, you should display a message that the item is out stock. When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

10- In the backing webpage, the user should be able to see all the items required to make a pie (pie fillings, crusts, pudding mixes and pie pans) . The user should see name, picture and price of each item. The user should be able to add each item to the cart. The user should be able to add each item multiple times to the cart. For each selected item, If you do not have enough inventory, you should display a message that the item is out stock. When the user adds an item to the cart, you should update the inventory, cart, and transaction tables accordingly.

11- In the cart page, the user should be able to see information about all the items in the cart (Item id, category, sub category, name, amount, price for each item. The user also should be able to see transaction id, and price for all items). If the user shops the items in the cart, you should change the status of transaction from in cart to shopped). If the user cancels shopping, you should update the inventory, cart, and transaction tables accordingly.

12- In the the account page, the user should be able to see the the status of each the last transaction and all items in each transactions. The user should be able to canceled each transaction if the status of the transaction is not shipped transaction. You should update the inventory if the user cancels a transactions. The user also should bed able to see all transaction in a specific month, last 3 months or in a specific year.