Online Grocery Store Website

CS6314 FINAL PROJECT REPORT

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Project Description

The website we built is an e-commerce website that sells groceries. Groceries listed in the website have six categories: vegetables, fruits, diary, beverage, snacks and meats. Our website have customer registration and log in functionalities. Customer can add items to the shopping cart, and then they can register or login to continue to checkout. Paging, filter and search functionalities are implemented in the grocery-listing page. An admin user can login to do CRUD (list, add, update, delete) operations on the grocery items. We assume that there is only one admin user, and the admin username and password have been added to the database. Regular customers cannot register or log in as an admin user. To ensure that our database does not get messed up on deleting and updating items that have foreign key constraints, cascade constraint properties are added in the "GroceryCat" (grocery category) and "OrderItems" tables.

Database Design

```
CREATE TABLE Grocery
(
 GID int,
 GName varchar(50),
 Description varchar(255),
 Price double,
 Stock int,
 PRIMARY KEY (GID)
);


CREATE TABLE Category
(
 CatID int,
 CatName varchar(50),
 PRIMARY KEY (CatID)
);


CREATE TABLE GroceryCat
(
 GID int,
 CatID int,
 PRIMARY KEY (GID, CatID),
 FOREIGN KEY (GID) REFERENCES Grocery(GID)
```
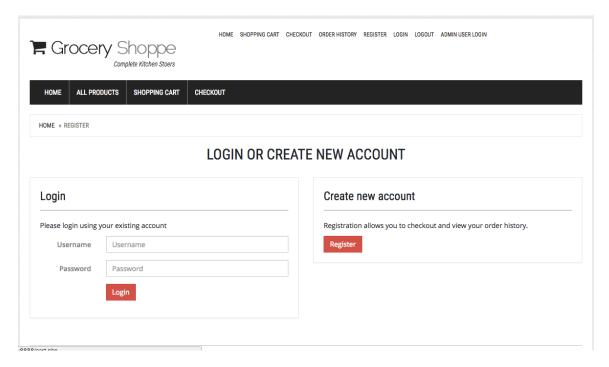
```
        ON DELETE CASCADE

        ON UPDATE CASCADE,

    FOREIGN KEY (CatID) REFERENCES Category(CatID)

        ON DELETE CASCADE

        ON UPDATE CASCADE
);


CREATE TABLE Customer
(
 Cusername varchar(50),

 Cpassword varchar(50),

 PRIMARY KEY (Cusername)
);


CREATE TABLE AdminUser
(
 Ausername varchar(50),

 Apassword varchar(50),

 PRIMARY KEY (Ausername)
);


CREATE TABLE Orders
(
 OrderID int AUTO_INCREMENT,
```

```
  Date_Time datetime,

  Cusername varchar(50),

  OrderTotal double,

  OrderStatus varchar(50),

  PRIMARY KEY (OrderID),

  FOREIGN KEY (Cusername) REFERENCES Customer(Cusername)

);


CREATE TABLE OrderItems

(

 OrderID int,

 ItemID int,

 UnitPrice double,

 Quantity int,

 Total double,

 ShipDate datetime,

 PRIMARY KEY (OrderID, ItemID),

 FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),

 FOREIGN KEY (ItemID) REFERENCES Grocery(GID)

        ON DELETE CASCADE

        ON UPDATE CASCADE

);
```

Languages and frameworks

We use html5, css (with Bootstrap), javascript (with jQuery), php and sql statement. The majority of the front-end design of our website is from a bootstrap template created by Sainath Chillapuram.
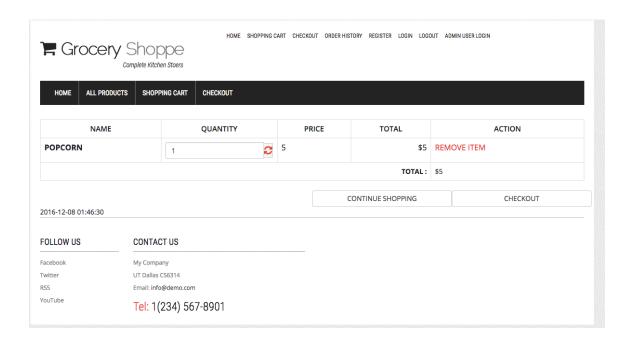
Screenshots for main functionalities

Grocery Shoppe
Complete Kitchen Stoers

HOME | **ALL PRODUCTS** | **SHOPPING CART** | **CHECKOUT**

Filter--Default

Search

Pork

A piece of fresh pork.

$13

QTY:

1

🛒 ADD TO CART

Beef

A piece of fresh beef.

$16

QTY:

1

🛒 ADD TO CART

Blueberry

A box of bluberries.

$6

QTY:

1

🛒 ADD TO CART

Grape

A bag of grapes.

$3

QTY:

1

🛒 ADD TO CART

« < 1 2 **3** 4 > »

Grocery Shoppe
Complete Kitchen Stoers

HOME | **ALL PRODUCTS** | **SHOPPING CART** | **CHECKOUT**

NAME	QUANTITY	PRICE	TOTAL	ACTION
POPCORN	1 ⟳	5	$5	REMOVE ITEM
			TOTAL : $5	

CONTINUE SHOPPING   CHECKOUT

2016-12-08 01:46:30

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UT Dallas CS6314
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🛒 Grocery Shoppe
Complete Kitchen Stoers

HOME   **ALL PRODUCTS**   **SHOPPING CART**   **CHECKOUT**

Congratulation, your order is placed successfully!

Your Order Summary -- OrderID: 16

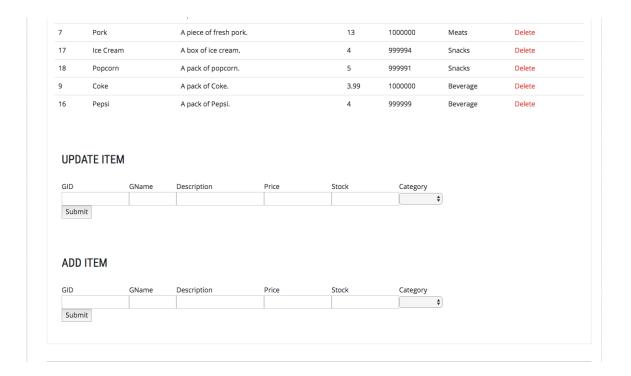| ITEM NAME	QUANTITY	PRICE	TOTAL
POPCORN	1	5	$5
		TOTAL :	$5

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ITEM LIST

GID	GName	Description	Price	Stock	Category	Operation
1	Tomato	little tomato	4	10	Vegetable	Delete
2	Cucumber	A cucumber.	1	1000000	Vegetable	Delete
3	Potato	A potato.	1	1000000	Vegetable	Delete
4	Grape	A bag of grapes.	3	999994	Fruit	Delete
5	Blueberry	A box of bluberries.	6	1000000	Fruit	Delete
10	Skim Milk	A large bottle of skim milk.	5	1000000	Diary	Delete
11	Low Fat Milk	A large bottle of low fat milk.	5	1000000	Diary	Delete
13	Whole Milk	A large bottle of whole milk.	3	1000000	Diary	Delete
15	Frozen Yogurt	A pack of frozen Yogurt.	2	999999	Diary	Delete
6	Beef	A piece of fresh beef.	16	1000000	Meats	Delete
7	Pork	A piece of fresh pork.	13	1000000	Meats	Delete
17	Ice Cream	A box of ice cream.	4	999994	Snacks	Delete
18	Popcorn	A pack of popcorn.	5	999991	Snacks	Delete
9	Coke	A pack of Coke.	3.99	1000000	Beverage	Delete
16	Pepsi	A pack of Pepsi.	4	999999	Beverage	Delete

7	Pork	A piece of fresh pork.	13	1000000	Meats	Delete
17	Ice Cream	A box of ice cream.	4	999994	Snacks	Delete
18	Popcorn	A pack of popcorn.	5	999991	Snacks	Delete
9	Coke	A pack of Coke.	3.99	1000000	Beverage	Delete
16	Pepsi	A pack of Pepsi.	4	999999	Beverage	Delete

UPDATE ITEM

GID	GName	Description	Price	Stock	Category

Submit

ADD ITEM

GID	GName	Description	Price	Stock	Category

Submit

Team members and work division

Name	Functionalities	Pages
Shumei Lin (sxl157930)	• List, filter and search products with paging functionalities. • Add items to shopping cart and checkout. • Order history. • Database Design.	cart.php, checkout.php, filter.js, grocery_list.html, grocery_list.php, history.php, index.php.

Yushen Fang (yxf151330)	• User signup and login. • Form validation and username, password validation. • Database Design	login.html, login.php, logout.php, register.html, register.php, GradeAdmin.php, validate.js, jquery.validate.js, jquery.form.js.
Yingwen Jiang (yxj152730)	• Admin user CRUD operations (list, add, delete and update items). • Database Design.	admin_add.php, admin_check.php, admin_config.php, admin_delete.php, admin_login.php, admin_logout.php, admin_page.php, admin_update.php.