# Design Document Commerce Website Developer—Grocery Shopping

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#### **UML**

## 1. AccountController

The UserAccountController class will be the first part of the application. The users are able to record the personal information and shopping information after they register accounts for this application. In this class, the main method is the register method and login method. In detail, it should be able to check if the user name is unique in the database, check email address format and its unique in the database, check password format, check the correction of the confirm password, encrypt the password and store it to the database, send email, bind email to the user account, set cookie, set password, load account information, modify password and sign out.

The AdminAccountController class will be able to mange the user account operated by administer.

#### **UserAccountController**

	AdminAccountController
checkUserName	add
checkEmail	
checkPassword	delete
checkConfirmPassword	modify
encryptPassword	search
sendEmail	
bindEmailToAccount	
register	
login	
checkUserAccount	
setCookie	
setPassword	
IoadAccount	
modifyPassword	
signout	

## 2. SaleController

The UserSaleController is the most significant and largest class in this application. This class will provide all the basic functions of shopping here and will record in the database clearly. It includes adding products or dishes to the shopping cart, removing products from the shopping cart, changing product information, recommend dishes or product, modify shopping cart information and place order. After this a series of processes, the user will be able to find products and buy products well.

For the AdminOrderController, it will be able to mange the order that user created. AdminProductController, AdminDishController, AdminTagController will be able to mange the both new and old products, dishes and tags. These method above will also modify the database information to achieve the goal.

UserSaleController	AdminOrderController
addProductToShoppingCart	add
changeProductInfo	remove
recommendDish	modify
addDishToShoppingCart	search
recommendProduct	
removeProductFromShoppingCart	AdminProductController
placeOrder	
modifyShoppingCart	add
7 11 3	remove
	modify
	search
AdminTagController	AdminDishController
add	add
remove	remove
modify	modify
search	search

# 3. ShippingController

The UserShippingController will be a class that is responsible for providing 3 different shipping way to choose. It is delivery(), carryout() and carpooling(). There are two extra methods are used to help having the ideal group and the ideal meeting location in the carpooling service.

The AdminShippingController class will be able to modify shipping way, modify shipping information and manage the group of carpooling.

UserShippingController	AdminShippingController
delivery	modifyShippingWay
carryout	modifyShippingInfo
carpooling	modifyGroup
createGroup	addGroup
setMeetingLocation	removeGroup
	searchGroup

## 4. CheckoutController

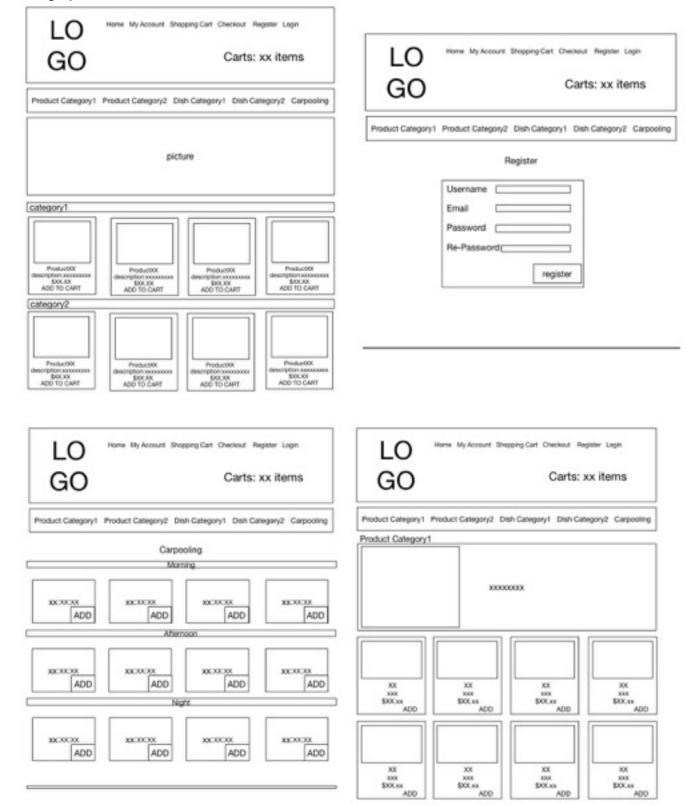
The UserCheckoutController class will be able to calculate the total amount of the order and shipping fee and record it in the database binding with the order and shipping information.

The AdminCheckoutController class will be able to modify the total amount of the order and shipping fee and modify it in the database as well.

UserCheckOutController	AdminCheckOutController
getTotal	modifyTotal

## **UI Layout Sketch**

These six pictures are the main sketch in my mind. These include index page, register page, carpooling page, category page, product page and dish page. The index page will show all the user information, dish information, production information, shopping car information and category information. The Register page will ask the basic input from the user and create an new account. Carpooling page will provide each time selection and will be able to add them to the shopping cart as well as other products. Th Category will show all the product in this category.



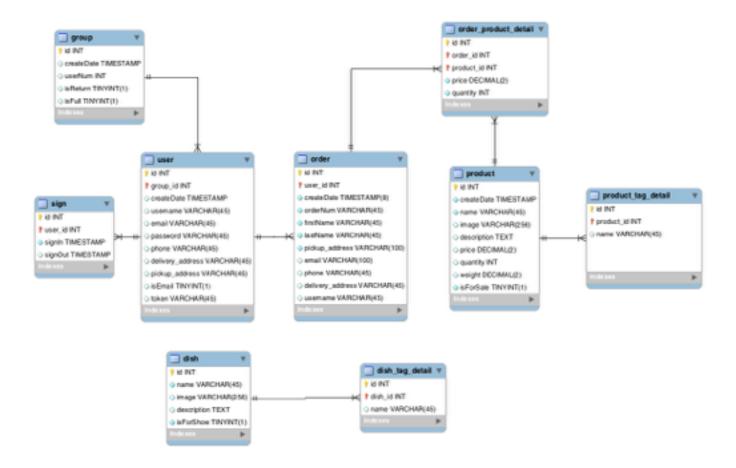
The Product page will be able to describe the product clearly and add them to the shopping cart. Also it will provide option, quantity to choose, provide description and picture to help user to know the product clearly and dish recommendation related to the product. The Dish page will be able to describe the dish clearly as well and add part of the ingredients to the shopping cart also





# Database design E-R diagram

The E-R diagram design the relationship among user, order, product, product detail,tag and group. The variables are shown as below.



## Function flow chart

This flow chart describe the main functions of the project. The index page can be access to register page, login page, carpooling page and provide shopping and searching here to navigate to the next action. Then the users can decide to buy the product or not and add them to the shopping cart. Also If they select the expected products, they will decide to place the order or shopping again. At last, once they place the order, they will chose the shipping way and checkout.

