

# Web-based Ordering & Ingredient Estimating for Bakery Manufacturer

Software Design Document

By

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Senior Project	22 October 2014

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V.1.2	17-09-2014	NM, PP	NM, PP	- Add Chapter 3 - Fix inappropriate words
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**\*NM = NontraMahachanont**

**\*PP = ParinyaPanyanak**

**\*PS = PhudinanSingkhamfu**

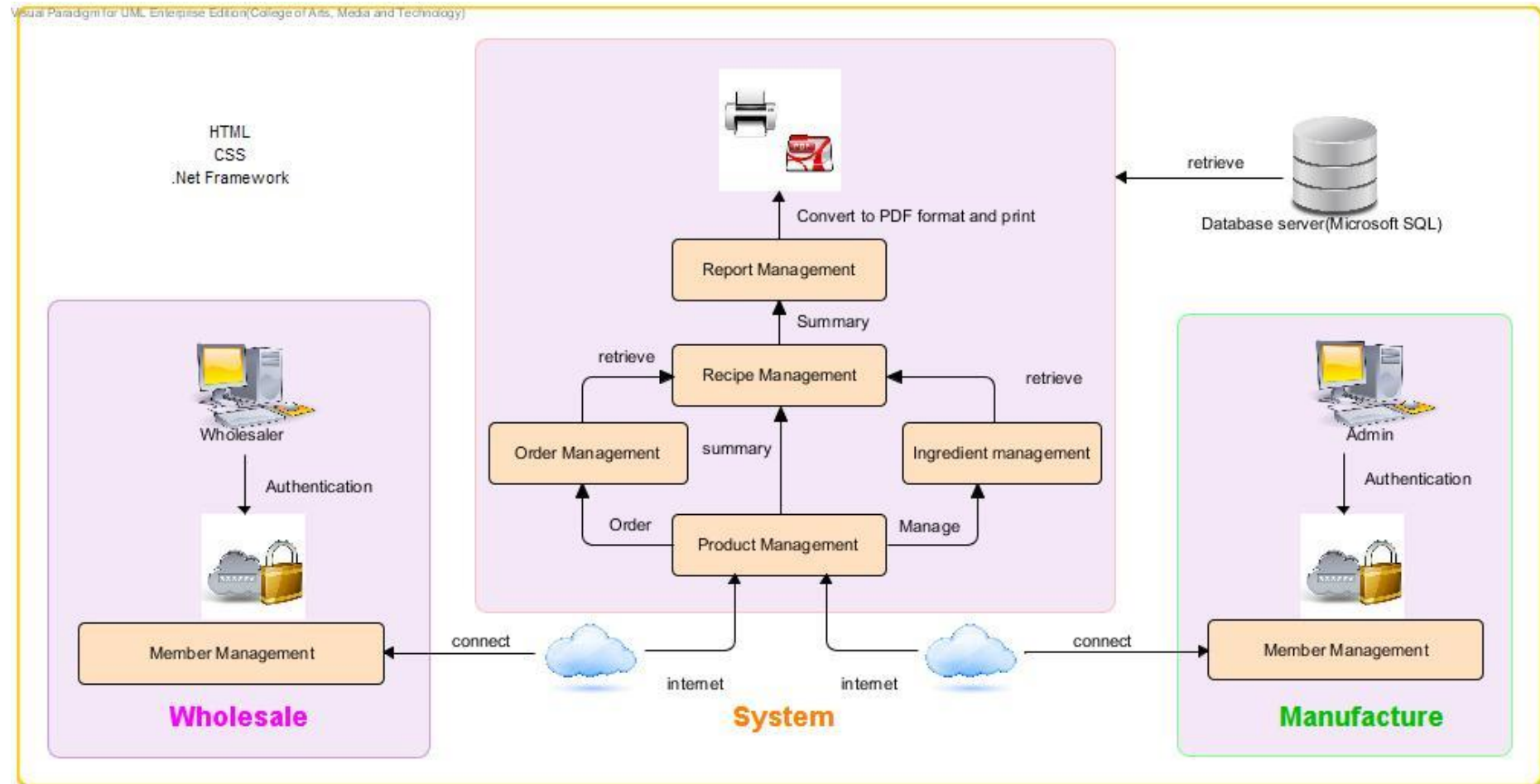
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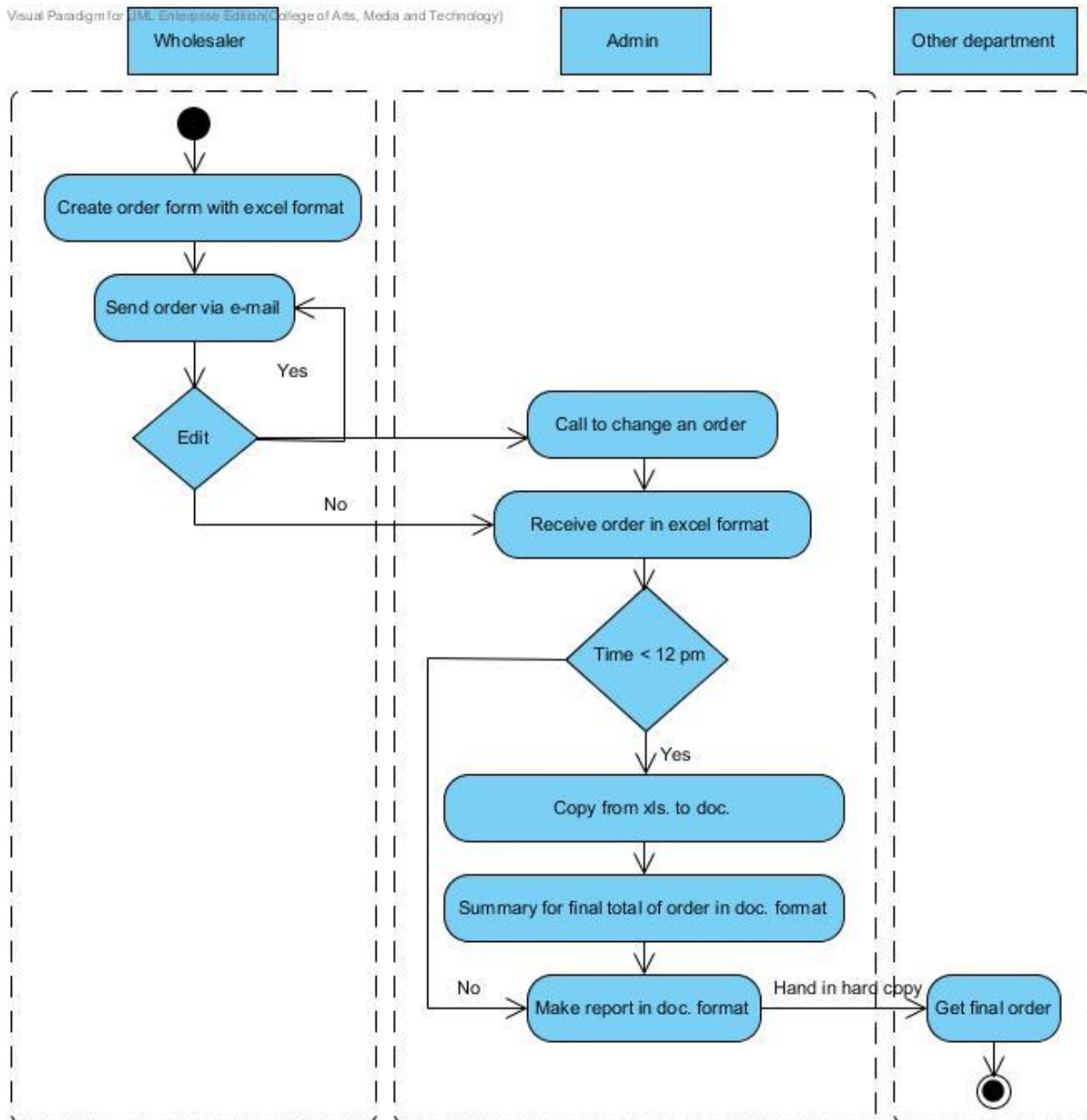
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## Chapter One | System Architecture



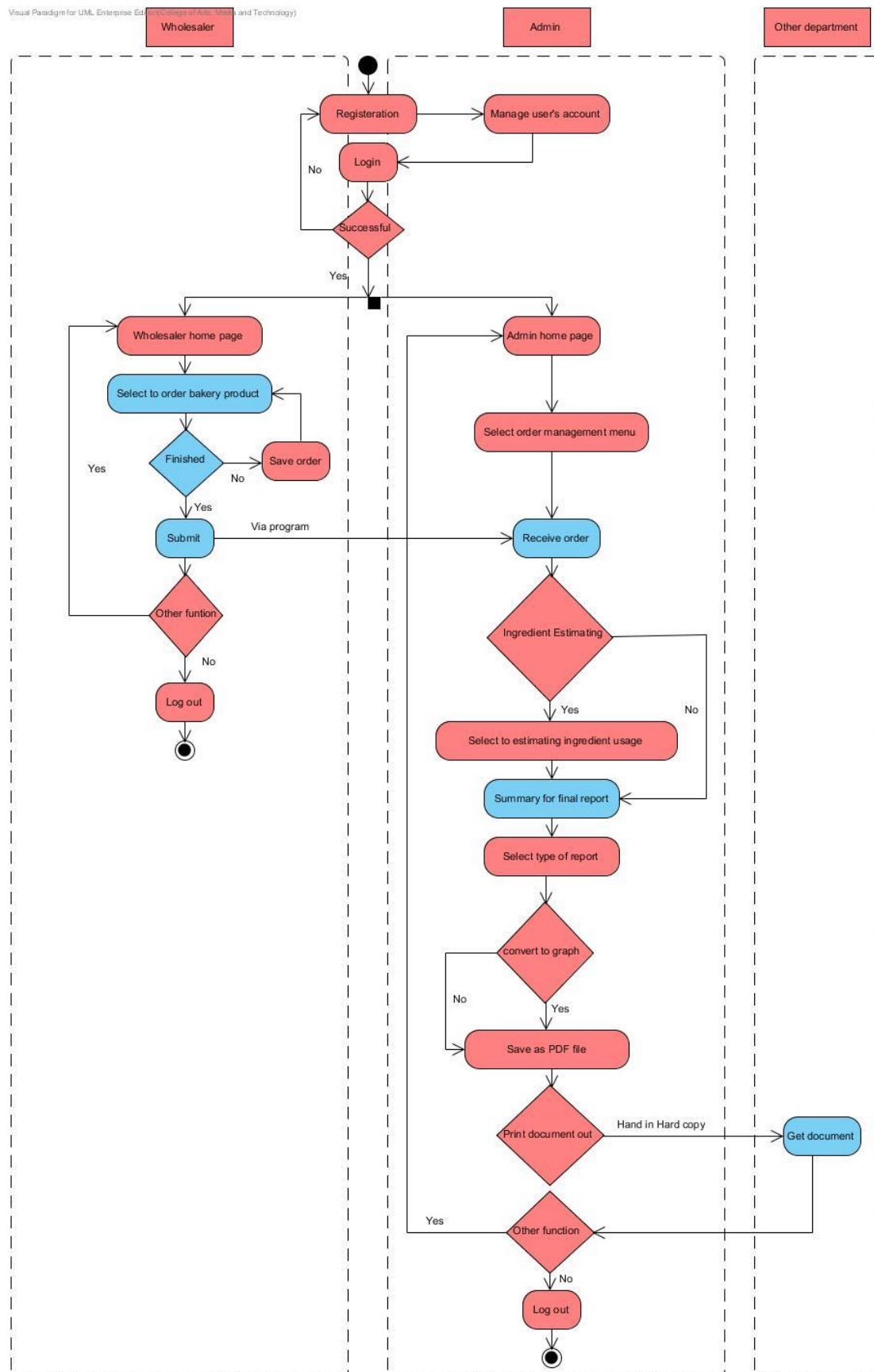
**Figure 1: Web-based Ordering & Ingredient Estimating for Bakery Manufacture**

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**Figure 2: Flow chart of original workflow**

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**Figure 3: Flow chart of Web-based Ordering & Ingredient Estimating for Bakery Manufacturer**

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## Chapter Two |Detailed Design

### 2.1 Class Diagram

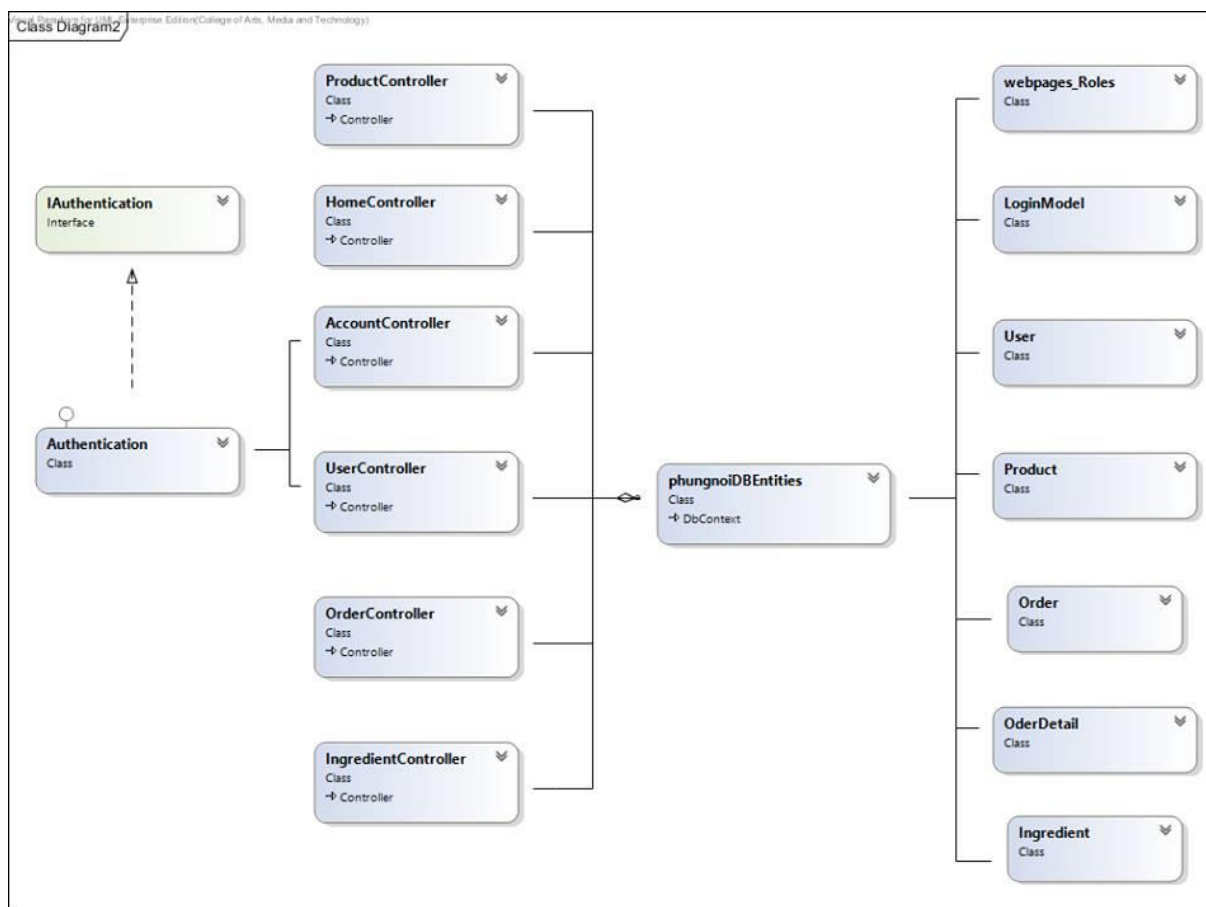
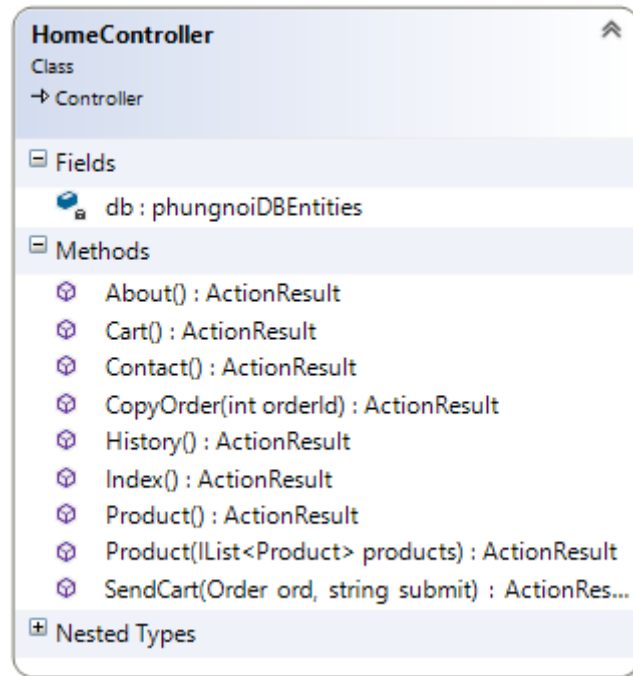


Figure 4: Class Diagram

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## 2.2 Class Diagram Description

### 2.2.1 Controller Class



#### Method:

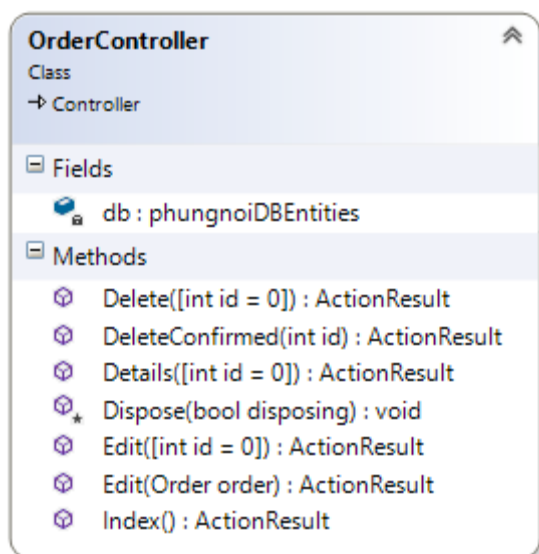
ID	Name	Description	Remark
1	About()	This method uses to call the About page represent.	<b>Return Type:</b> ActionResult
2	Cart()	This method uses to call the Cart page represent.	<b>Return Type:</b> ActionResult
3	Contact()	This method uses to call the Contact page represent.	<b>Return Type:</b> ActionResult
4	CopyOrder()	This method uses to load old order from database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> ordrID; int
5	History()	This method uses to call the History page represent.	<b>Return Type:</b> ActionResult

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6	Product()	This method uses to call the Product page represent.	<b>Return Type:</b> ActionResult
7	Product()	This method uses to add set of products to cart.	<b>Return Type:</b> ActionResult <b>Parameters:</b> products;IList<produc>
8	SendCart()	This method uses to save or send cart to Database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> ord; int , submit;string

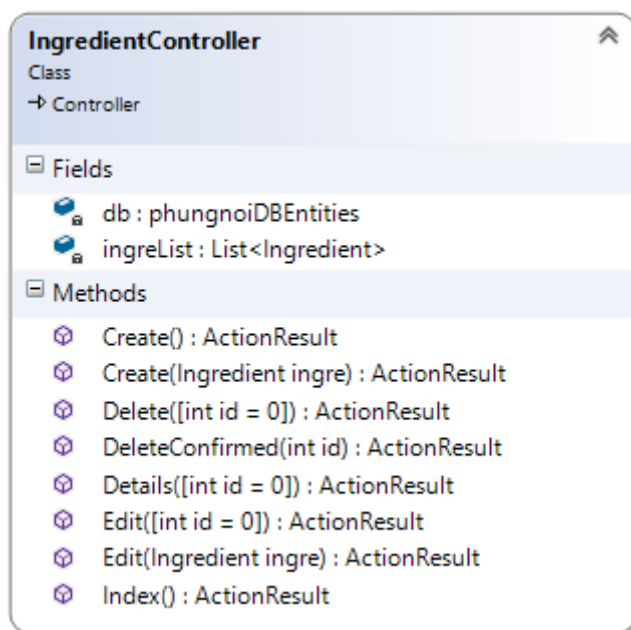
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### Method:

ID	Name	Description	Remark
1	Delete()	This method uses to call the Delete page represent.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id = 0; int
2	DeleteConfirmed()	This method uses to delete the order from database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id; int
3	Edit()	This method uses to call the Edit page represent.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id=0;int
4	Edit()	This method used to update the order information into database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> ingre;Ingredient
5	Details()	This method uses to call the details of the order.	<b>Return Type:</b> ActionResult <b>Parameters:</b> int id = 0
6	Index()	This method uses to call the index page represent.	<b>Return Type:</b> ActionResult

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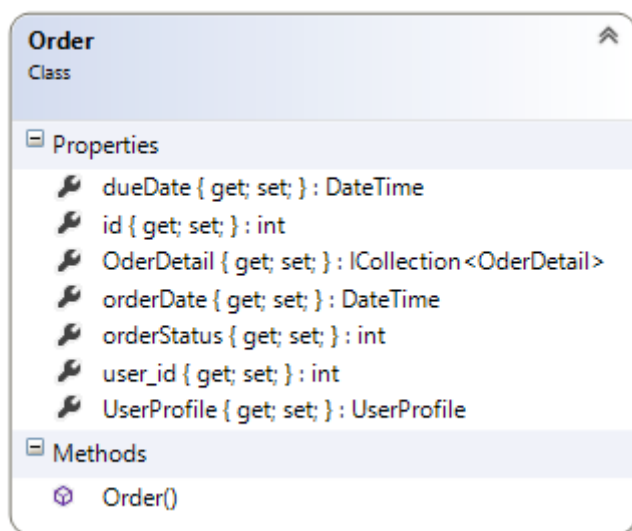


### Method:

ID	Name	Description	Remark
1	Create()	This method uses to call the Create page.	<b>Return Type:</b> ActionResult
2	Create()	This method uses to add the product into the database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> ingre; Ingredient
3	Delete()	This method uses to call the Delete page.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id = 0; int
4	DeleteConfirmed()	This method uses to delete the ingredient into the database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id; int
5	Details()	This method uses to call the ingredient details.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id = 0; int
6	Edit()	This method uses to call the Edit page.	<b>Return Type:</b> ActionResult <b>Parameters:</b> id = 0; int
7	Edit()	This method used to update the ingredient information into the database.	<b>Return Type:</b> ActionResult <b>Parameters:</b> ingre; Ingredient
8	Index()	This method uses to call the Index page.	<b>Return Type:</b> ActionResult

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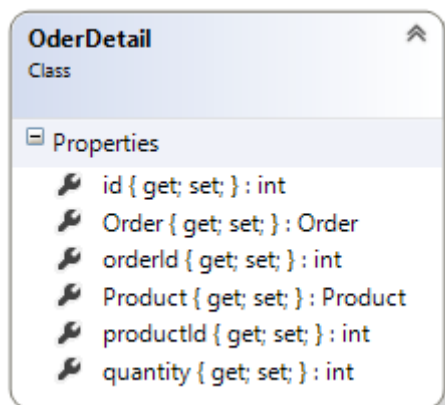
## 2.2.2 Model Class



### Property:

ID	Name	Description	Remark
1	dueDate	This properties uses for storing the due date into the database.	<b>Type:</b> DateTime
2	Id	This properties uses for storing the id into the database.	<b>Type:</b> Int
3	OrderDetail	This properties uses for storing the list of order detail into the database.	<b>Type:</b> ICollection<OrderDetail>
4	orderDate	This properties uses for storing the date to order into the database.	<b>Type:</b> DateTime
5	orderStatus	This properties uses for storing the status of order into the database.	<b>Type:</b> int
6	User_id	This properties uses for storing the id of user into the database.	<b>Type:</b> int
7	UserProfile	This properties uses for storing the profile into the database.	<b>Type:</b> UserProfile

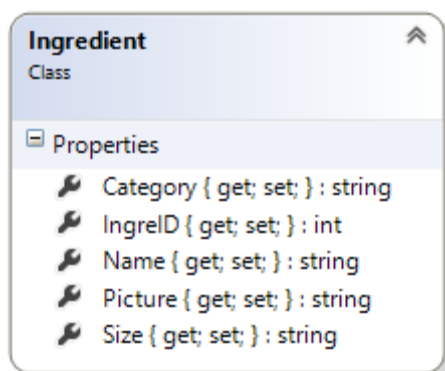
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### Property:

ID	Name	Description	Remark
1	Id	This properties uses for storing the order detail id into the database.	<b>Type:</b> int
2	Order	This properties uses for storing the order into the database.	<b>Type:</b> Order
3	orderId	This properties uses for storing the order Id into the database.	<b>Type:</b> int
4	Product	This properties uses for storing the Product into the database.	<b>Type:</b> Product
5	ProductId	This properties uses for storing the Product id into the database.	<b>Type:</b> int
6	quantity	This properties uses for storing the quantity of product into the database.	<b>Type:</b> int

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### Property:

ID	Name	Description	Remark
1	Category	This property uses for store the ingredient category into the database.	<b>Type:</b> String
2	IngreID	This property uses for store the ingredient id into the database.	<b>Type:</b> Int
3	Name	This property uses for store the ingredient name into the database.	<b>Type:</b> String
4	picture	This property uses for store the ingredient picture into the database.	<b>Type:</b> String
5	Size	This property uses for store the ingredient size into the database.	<b>Type:</b> String

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## 2.3 Sequence Diagram

### 2.3.1 Wholesaler order bakery product

Figure 5: SD - 11 Wholesaler order bakery product

ToList<Product>

FirstOrDefault<Product>

**Figure 5: SD - 11 Wholesaler order bakery product**

Wholesaler has to access the HomeController before creating new order information in the system. First, the wholesaler must inputs new bakery product quantity into the ingredient form. Then HomeController will be checking the bakery product quantity form. If the input information is more than zero, it will be return product to HomeController.

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## 2.3.2 Wholesaler send bakery product to own cart

SD

Create List<Product>

FirstOrDefault<Product>

**Figure 6: SD - 12 Wholesaler send bakery product to own cart**

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Wholesaler has to access the HomeController before sending new order information in the system. First, the wholesaler must select submit button to add bakery product into own cart. Then HomeController will be adding the bakery product into the cart. If the input information is valid, it will be return cart page to the wholesaler.

### 2.3.3 Wholesaler view their order information

FirstOrDefault<UserProfile>

**Figure 7: SD - 13 Wholesaler view their order information**

Wholesaler has to access the HomeController before viewing own order information in the system. First, the wholesaler must login to the system and select history bar to view current order. Then HomeController will be checking the username and retrieve their order information to display at HomeController.

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## 2.3.4 Admin view all order information

24

ToList<Order>

Include<Order, UserProfile>

**Figure 8: SD - 14 Admin view all order information**

Admin has to access the OrderController before viewing all order information in the system. First, the admin must login to the system and selects order management bar to access order management page. Then OrderController will be checking the order information and retrieve all order information to display at OrrderController.

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### 2.3.5 Admin create ingredient information

Figure 9: SD - 15 Admin create ingredient information

**Figure 9: SD - 15 Admin create ingredient information**

Admin has to access the IngredientController before creating new ingredient information in the system. First, the admin must inputs new ingredient information include ingredient name, category and ingredient picture to the ingredient form. Then select save button, IngredientController will be checking the ingredient form. If the input information is valid, it will be save new ingredient into the database.

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## 2.3.6 Admin edit ingredient information

Figure 10: SD - 16 Admin edit ingredient information

Entry<Ingredient>

ToList<Ingredient>

**Figure 10: SD - 16 Admin edit ingredient information**

Admin has to access the IngredientController before editing ingredient information in the system. First, the admin must inputs updated ingredient information include ingredient name, ingredient description, category and ingredient picture to the ingredient form. Then select save button, IngredientController will be checking the ingredient form. Then the system will be updated information into the database. Then the system returns updated ingredient to IngredientController.

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## 2.3.7 Admin delete ingredient

✎

ToList<Ingredient>

**Figure 11: SD - 17 Admin delete ingredient**

Admin has to access the IngredientController before deleting ingredient information in the system. First, Admin delete ingredient by select to delete and confirm to delete. Then the system calls ingredient information from the database. If the admin save this action, the system shall clear previous ingredient information from the database

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## 2.3.8 Admin view ingredient list

RE

ToList<Ingredient>

**Figure 12: SD-18 Admin view ingredient list**

First, Admin has to access the index page. Then the admin search the ingredient information by input the keyword and submits to the controller. The controller will validate the existing keywords and display the related results. All ingredient information are retrieved from the phungnoi database, ingredient table. Then, it will return the required data to the admin in information page.

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### 2.3.9 Admin view ingredient information

Figure 13: SD-19 Admin view ingredient information

**Figure 13: SD-19 Admin view ingredient information**

First, Admin has to access the ingredient details page and request the require data to the IngredientController. Then, the controller will find id are matched and return those information to the admin. The admin will see the ingredient information from ingredient details page.

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## Chapter Three | Data Architecture

### 3.1 ER Diagram

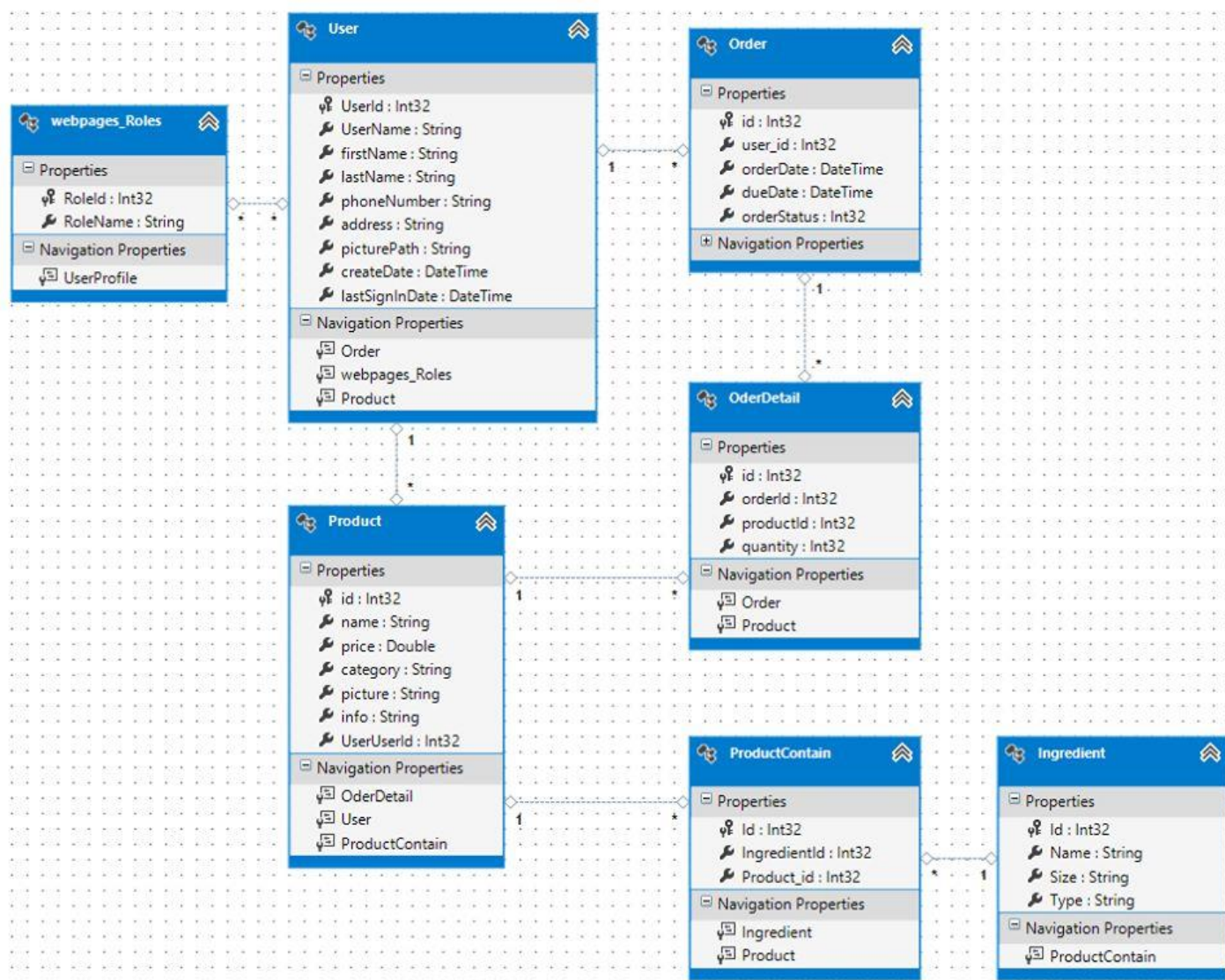
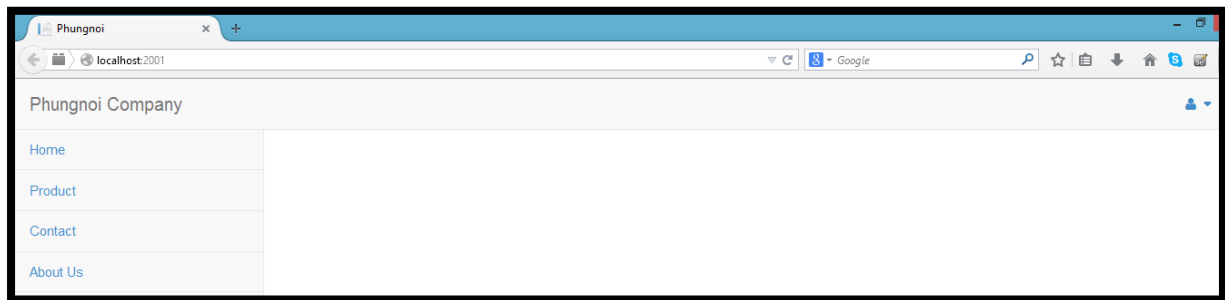


Figure 14: ER Diagram

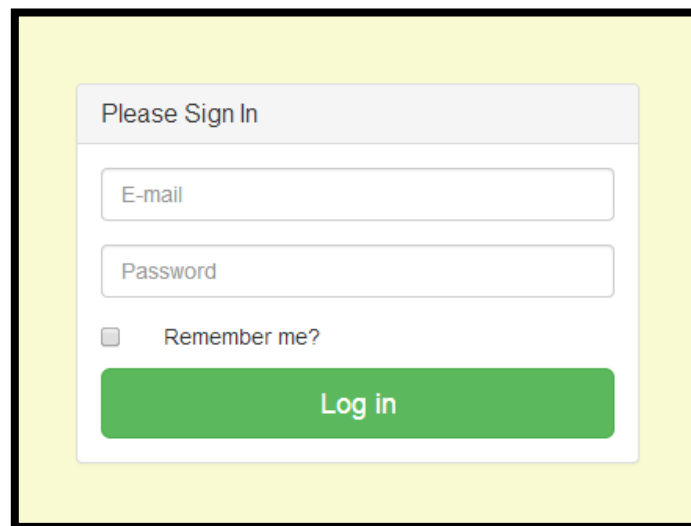
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## Chapter Four | User Interface

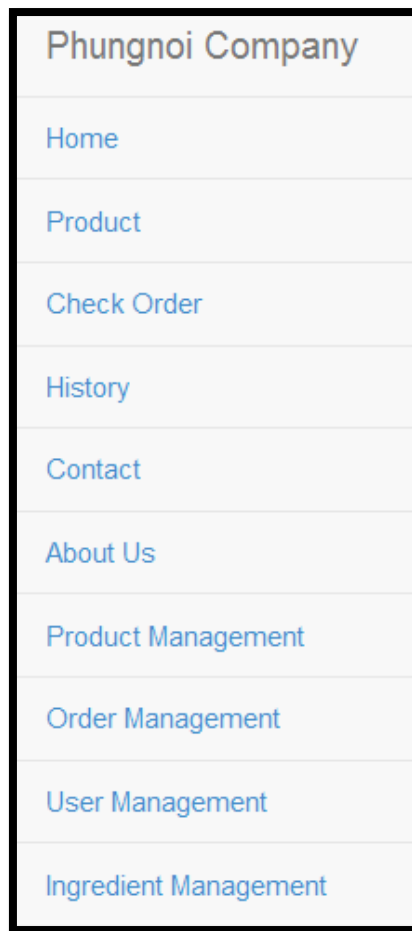


**Figure 15:** UI – 01 Home page

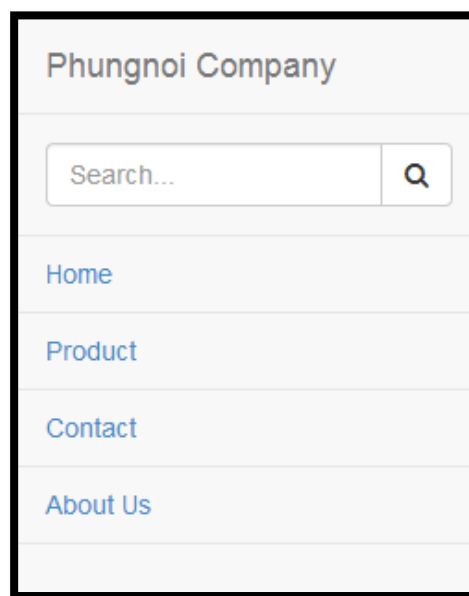


**Figure 16:** UI – 02 Login page

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**Figure 17:** UI - 03 Admin main layout page



**Figure 18:** UI – 04 Wholesaler main layout page

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## Create

Add new product

**User Name**

**Phone Number**

**Password**

**Address**

**First Name**

**Picture**

No file selected.

**Last Name**

[Back to List](#)

**Figure 19:** UI – 05 Create user information page

## Edit

Edit User

**User Name**

**Address**

**Password**

**Phone Number**

**First Name**

**Picture**

No file selected.

**Last Name**


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**Figure 20:** UI – 06 Edit user information page

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## Delete

Delete your user



**User ID:** 5

**User Name:** tung@dd.com

**User Password:**

**Telephone Number:** 089133423

**Address:** sdfgd rgds vff dg

**Create date:** 6/16/2014 12:00:00 AM

**Last Sign in:** 7/6/2014 1:46:40 PM

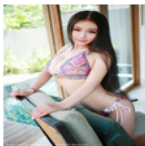


[Delete](#) | [Back to List](#)

**Figure 21:** UI – 07 Delete user information page

## List of Users

Users

[Create New](#)

#	Picture	User Name	First Name	Last Name	Last Signin
2		tung@gmail.com	Parinya	Panyanak	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
4		jj@dd.com	test	test	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
5		tung@dd.com	Tung	lastname	10/21/2014 8:39:50 PM <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

**Figure 22:** UI – 08 User list page

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## User Details

Details for user 'tung@dd.com'.



**User ID:** 5

**User Name:** tung@dd.com

**User Password:**

**Telephone Number:** 089133423

**Address:** sdfgd rgds vff dg

**Create date:** 6/16/2014 12:00:00 AM

**Last Sign in:** 7/6/2014 1:46:40 PM

[Edit](#) | [Back to List](#)

**Figure 23:** UI – 09 User details page

## Create

Add new product

**Product Name \***

please input product name

**Product picture path \***

No file selected.

please input picture of product

**Price \***

please input price of the product

**Description**

please input explanation of product

**Category \***

please input catagory of product

[Back to List](#)

**Figure 24:** UI – 10 Create bakery product page

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## Edit

Edit your product

**name**

**price**

**category**

**Product picture path \***

No file selected.

**info**

[Back to List](#)

**Figure 25:** UI – 11 Edit bakery product page

## Delete

Delete your product



**name:** zzz

**price:** B500.00




**category:** a

**info:** aaaaa

[Back to List](#)

**Figure 26:** UI – 12 Delete bakery product page

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Product list					
Products					Search...
<a href="#">Create New</a>					
#	Picture	Name	Category	Information	Price
1		Difuku	difuku		32
2		Coconut cake	cake		50
3		Soft cake	fresh cake		75

**Figure 27:** UI – 13 Bakery product list page

## Details

Edit your product



**name:** Difuku

**price:** 32

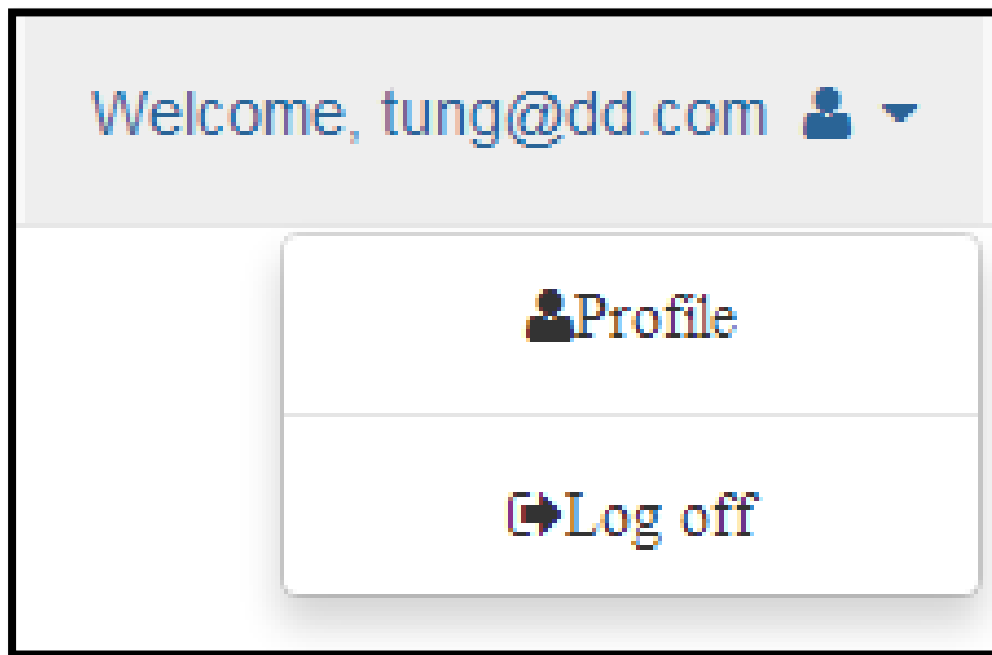
**category:** difuku

**info:**

[Edit](#) | [Back to List](#)

**Figure 28:** UI – 14 Bakery product details page

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**Figure 29:** UI – 15 Logout page

## Create

Add new product

**Product Name \***

name is require  
please input product name

**Product picture path \***

No file selected.

picture is require  
please input picture of product

**Price \***

price is require  
please input price of the product

**Description**

please input explanation of product

**Category \***

category is require  
please input catagory of product

**Figure 30:** UI – 16 Validation form page

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## Create

Add new product

**Ingredient Name \***  
  
please input product name

**Product picture path \***  

Browse~
No file selected.

please input picture of product

**Size of product \***  
  
please input price of the product

**Category \***  
  
please input category of product

Create

[Back to List](#)

**Figure 31:** UI – 17 Create ingredient information page

## Edit

Edit your Ingredient

**Name**

**Product picture path \***  

Browse~
No file selected.

**Size**

**Category**

Save

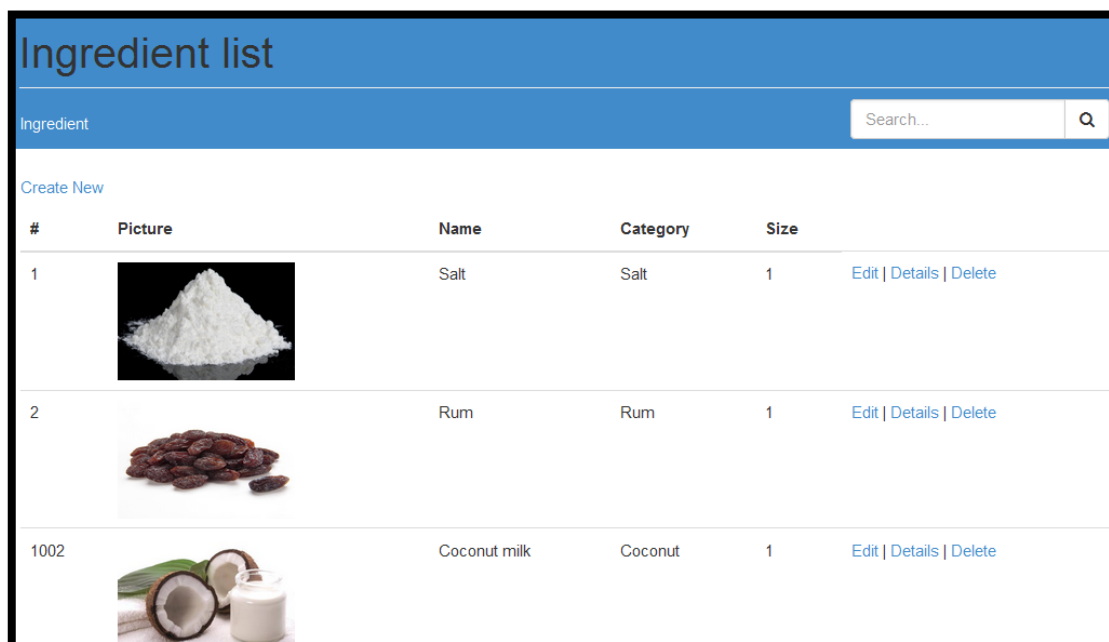
[Back to List](#)

**Figure 32:** UI – 18 Edit ingredient information page

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**Figure 33:** UI – 19 Delete ingredient page



**Figure 34:** UI – 20 Ingredient list page

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## Details

detail of your ingredient



**Name:** Salt

**Size:** 1

**Category:** Salt




[Edit](#) | [Back to List](#)

**Figure 35:** UI – 21 Ingredient Details page

## Bakery Products

Select products

Q

#	Picture	Name	Price	Category	Quantity
1		Difuku	32	difuku	20 <span style="font-size: 15px;">↑ ↓</span>
2		Coconut cake	50	cake	30 <span style="font-size: 15px;">↑ ↓</span>
3		Soft cake	75	fresh cake	10 <span style="font-size: 15px;">↑ ↓</span>

**Figure 36:** UI – 22 Order product page

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Current Order						
Cart						
#	Picture	Name	Quantity	Price(per 1)	Discount(per 1)	Total Price
20		Difuku	20	32	22.4	448
30		Coconut cake	30	50	35	1050
10		Soft cake	10	75	52.5	525

Figure 37: UI – 22 Bakery product cart page

History					
history					
#	User ID	Order date	Deliver date	Status	
2	5	6/10/2014 :: 00:00:00	23/10/2014	Available !	<a href="#">Details</a>   <a href="#">Replete</a>
13	5	21/10/2014 :: 19:11:42	31/10/2014	Preparing . .	<a href="#">Details</a>   <a href="#">Delete</a>
14	5	21/10/2014 :: 20:23:15	31/10/2014	Preparing . .	<a href="#">Details</a>   <a href="#">Delete</a>
15	5	21/10/2014 :: 23:29:29	31/10/2014	Preparing . .	<a href="#">Details</a>   <a href="#">Delete</a>
16	5	21/10/2014 :: 23:33:10	31/10/2014	Preparing . .	<a href="#">Details</a>   <a href="#">Delete</a>

[back to products](#)

Figure 38: UI – 23 History page

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Order List					
order				Search...	
Order ID	User Name	Order Date	Deliver Date	Status	
1	tung@gmail.com	25/6/2014 :: 00:00:00	24/6/2014	Available !	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
2	tung@dd.com	6/10/2014 :: 00:00:00	23/10/2014	Available !	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
13	tung@dd.com	21/10/2014 :: 19:11:42	31/10/2014	Preparing ..	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
14	tung@dd.com	21/10/2014 :: 20:23:15	31/10/2014	Preparing ..	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
15	tung@dd.com	21/10/2014 :: 23:29:29	31/10/2014	Preparing ..	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
16	tung@dd.com	21/10/2014 :: 23:33:10	31/10/2014	Preparing ..	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

**Figure 39:** UI – 24 Order list page

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