EEI Homework 4

Gym Website

Words count: 971

Group: 5

Student IDs & Names:

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105034555 洪郁融 Erin

Our web site is built by Microsoft Visual Studio 2013 and the topic is about gym, and it contains interface for customers and the interface for managers. Nowadays people emphasize living in a healthy way, and our website provide online shopping store which sells protein powder, fitness gloves, creatine, etc. The flow charts of the website are shown below.

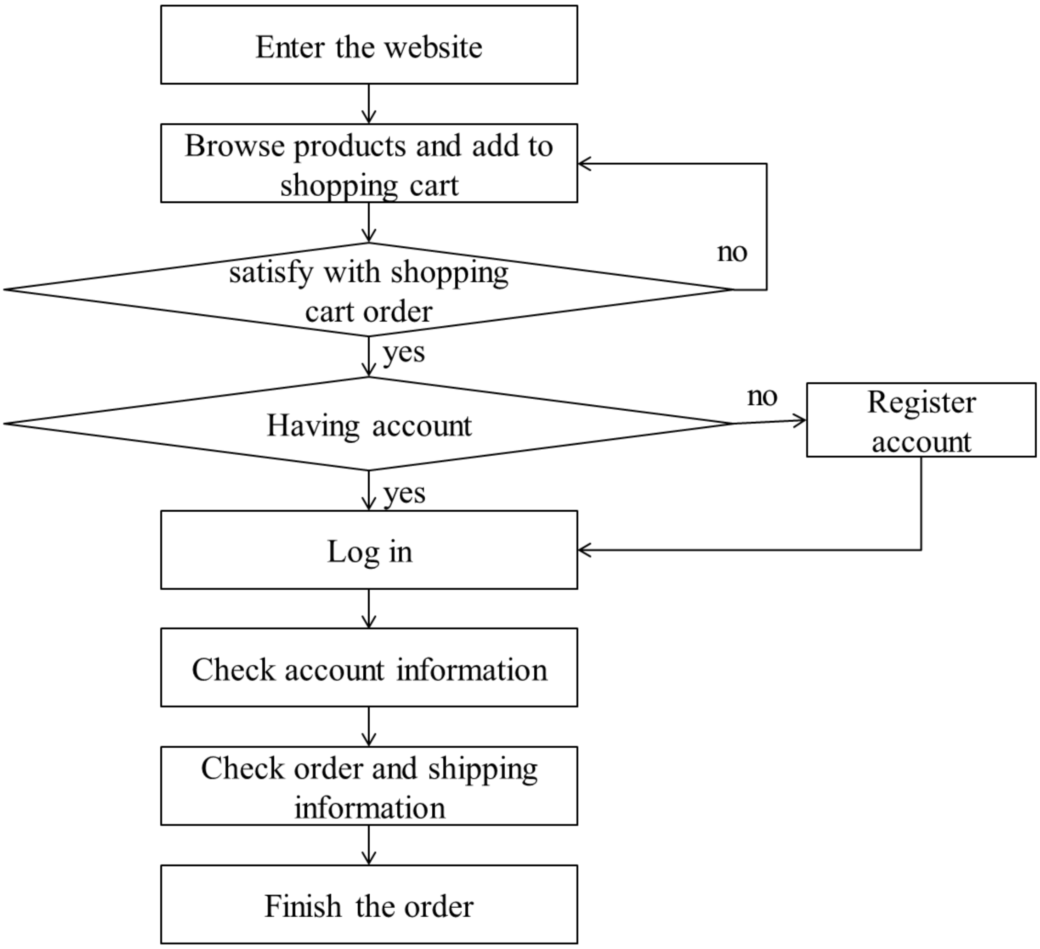

Enter the website
Browse products and add to shopping cart
satisfy with shopping cart order
no
yes
Having account
no
Register account
yes
Log in
Check account information
Check order and shipping information
Finish the order

Figure 1. Flow Chart of the Website Interface for Customers

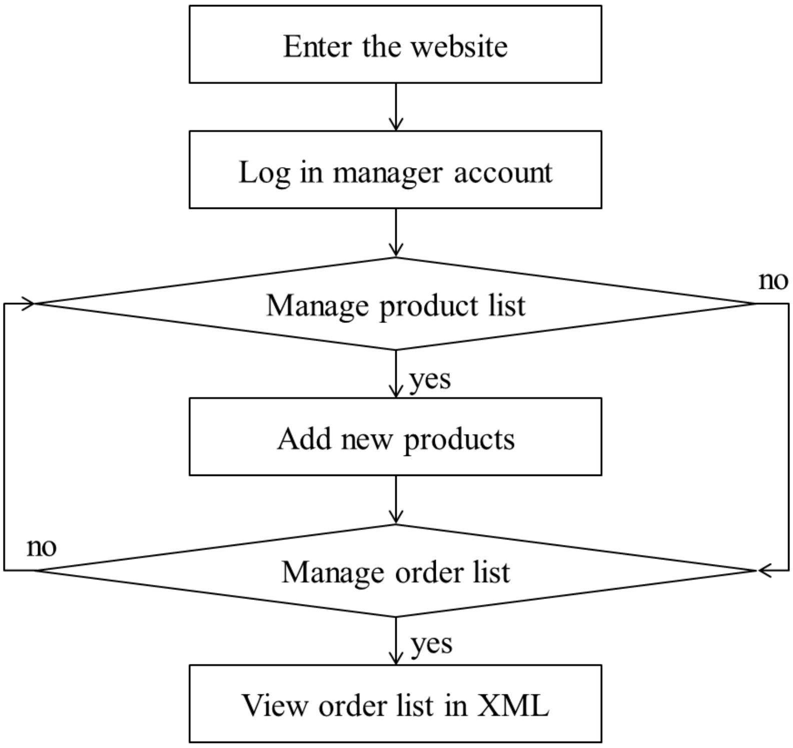
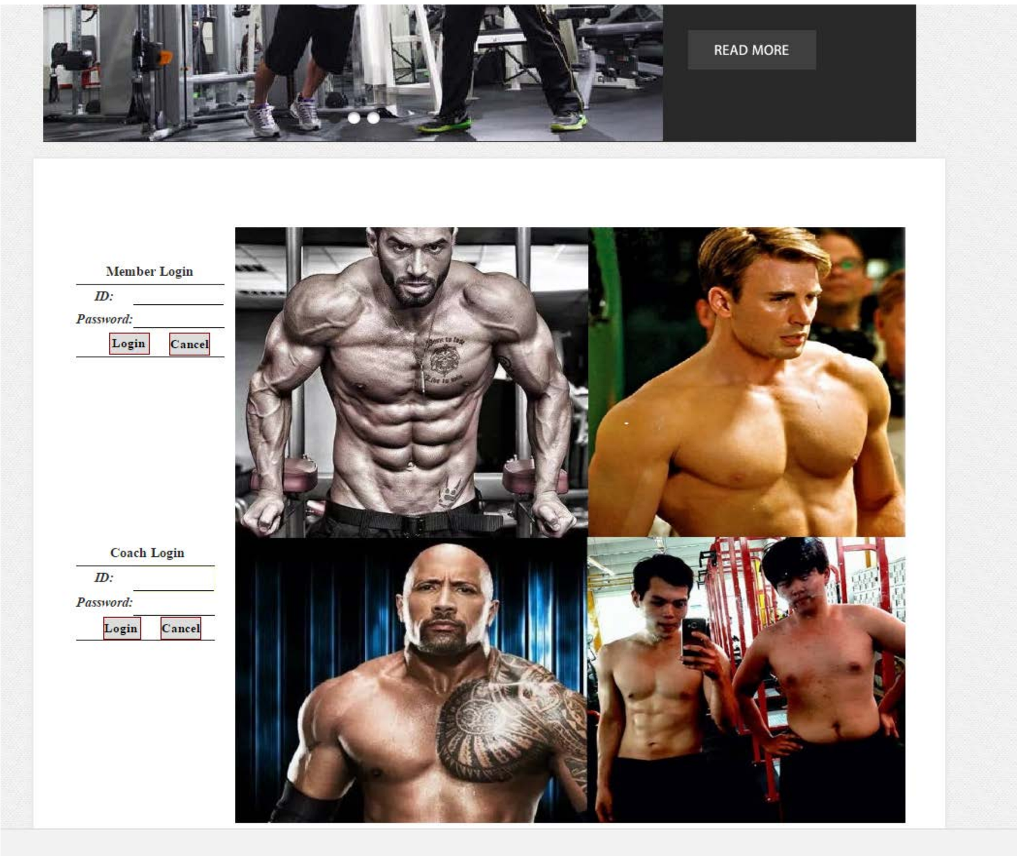

Enter the website
Log in manager account
Manage product list
no
yes
Add new products
no
Manage order list
yes
View order list in XML

Figure 2. Flow Chart of the Website Interface for Managers

Web’s Home Page:

There are two login ways in our website which include member login and coach login and some of information which is about the gym news(Promotion), while we login in a member account, it will transfer to customer page, and if we login as a coach account, it will go to management page.



Member Login

ID:

Password:

Login Cancel

Coach Login

ID:

Password:

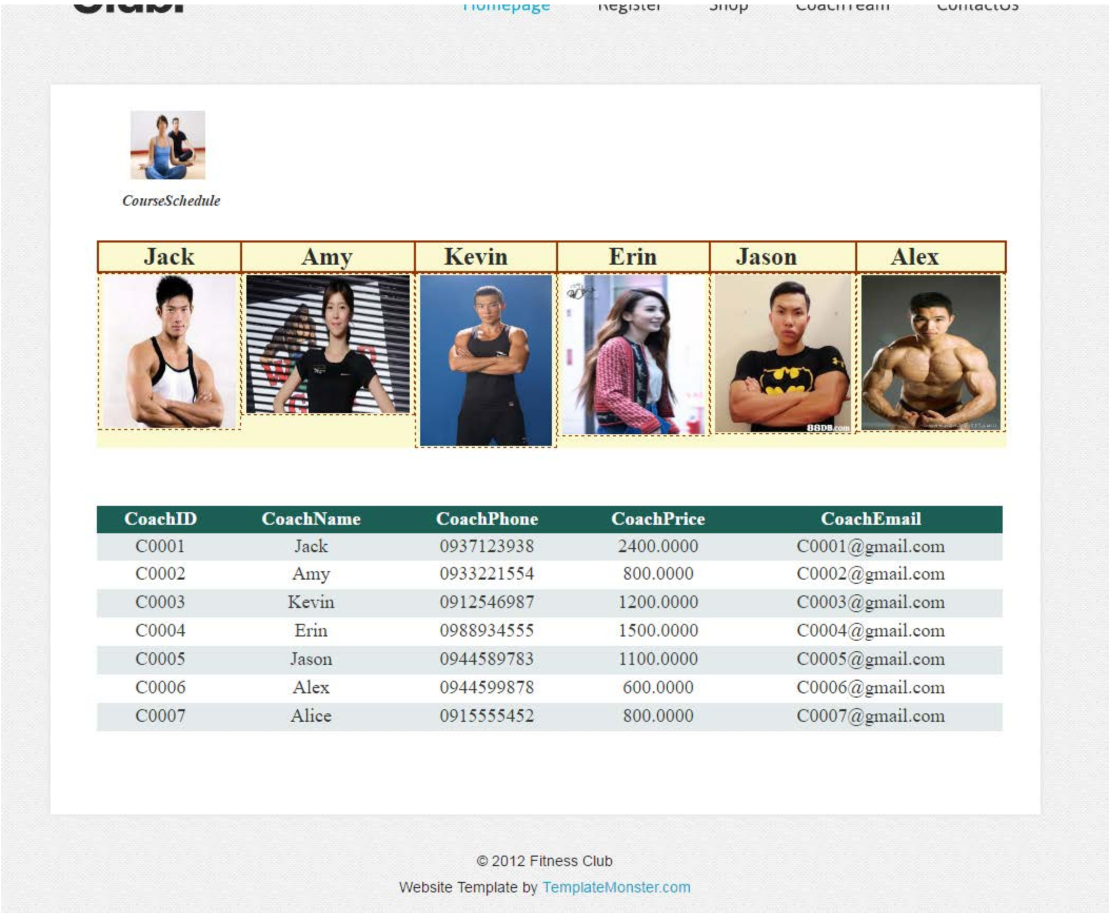
Login Cancel

Figure3. The Photo of Web’s Home Page

When we login as a member account, we can see these pages:

1. Coach Team

   In this page, we introduce the basic information of the coaches in the gym, such as phone number, price, name, email, etc.



CoachID	CoachName	CoachPhone	CoachPrice	CoachEmail
C0001	Jack	0937123938	2400.0000	C0001@gmail.com
C0002	Amy	0933221554	800.0000	C0002@gmail.com
C0003	Kevin	0912546987	1200.0000	C0003@gmail.com
C0004	Erin	0988934555	1500.0000	C0004@gmail.com
C0005	Jason	0944589783	1100.0000	C0005@gmail.com
C0006	Alex	0944599878	600.0000	C0006@gmail.com
C0007	Alice	0915555452	800.0000	C0007@gmail.com

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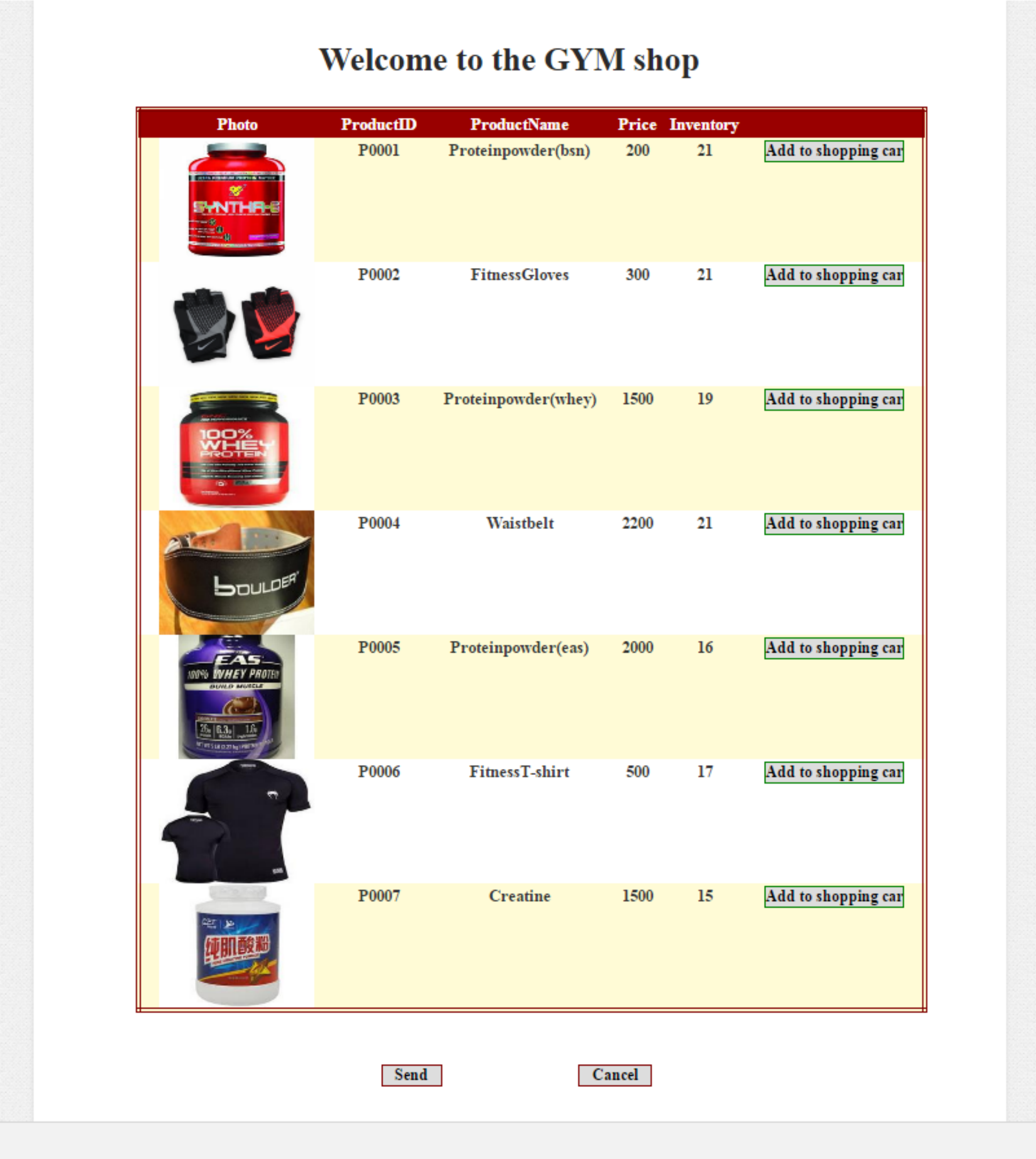
Figure4. The Photo of Coach Team

2. Product List Page

   There are many products in our online store, and there show the discount activity, inventory, price, etc. to customer. There are few gyms doing online marketing in Taiwan, so we tried to make a new trend of living in a healthy way.



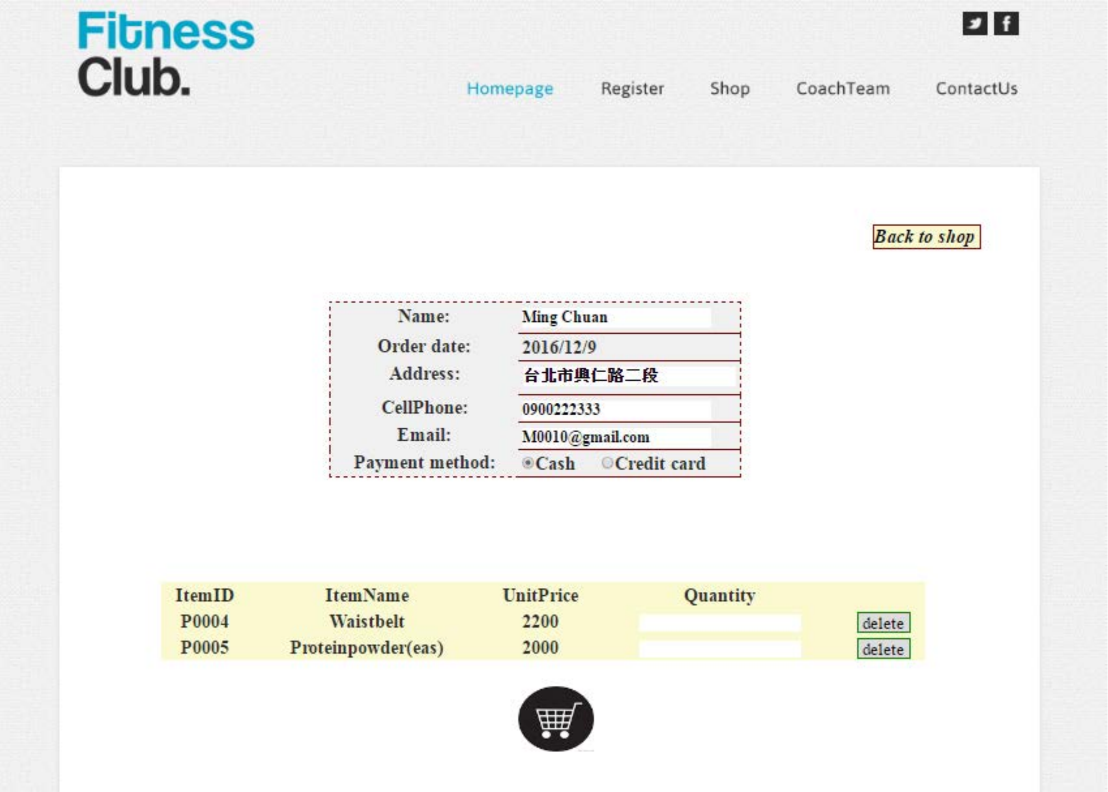
Welcome to the GYM shop

Photo	ProductID	ProductName	Price	Inventory	
	P0001	Proteinpowder(bsn)	200	21	Add to shopping car
	P0002	FitnessGloves	300	21	Add to shopping car
	P0003	Proteinpowder(whey)	1500	19	Add to shopping car
	P0004	Waistbelt	2200	21	Add to shopping car
	P0005	Proteinpowder(eas)	2000	16	Add to shopping car
	P0006	FitnessT-shirt	500	17	Add to shopping car
	P0007	Creatine	1500	15	Add to shopping car

Figure5. The Page of Product List

3. Shopping Cart Page

   Before the customer make the purchase, they always need to check the things they chose were correct or not, so they need the shopping cart page to make sure the shopping list are correct and not to make a wrong purchase.



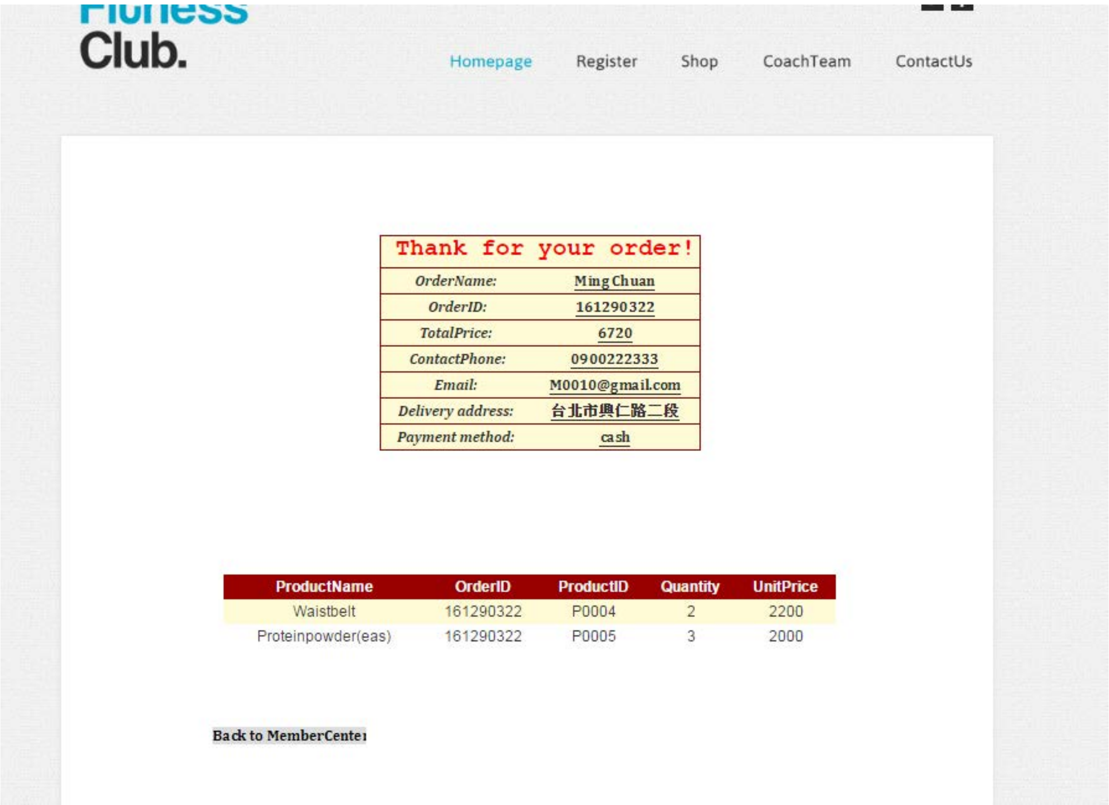
Name: Ming Chuan
Order date: 2016/12/9
Address: 台北市興仁路二段
CellPhone: 0900222333
Email: M0010@gmail.com
Payment method: ● Cash ○ Credit card

ItemID	ItemName	UnitPrice	Quantity	
P0004	Waistbelt	2200		delete
P0005	Proteinpowder(eas)	2000		delete

Figure6. The Page of Shopping Cart

4. Invoice System Page

   After they paid the bill, the customer need to preserve an invoice which can protect their rights. And this invoice including many purchase info such as order name, order ID, total price, phone, email, address, etc.


Club.
Homepage
Register
Shop
CoachTeam
ContactUs
Back to MemberCenter

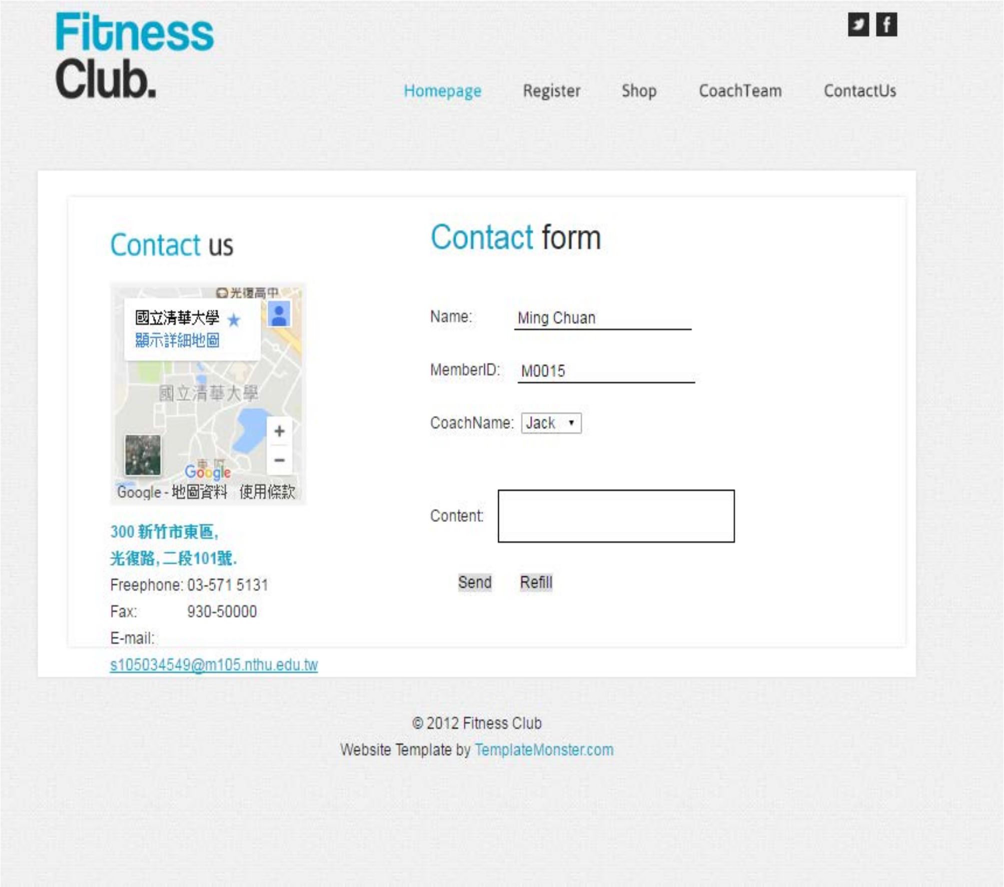
Thank for your order!	
OrderName:	Ming Chuan
OrderID:	161290322
TotalPrice:	6720
ContactPhone:	0900222333
Email:	M0010@gmail.com
Delivery address:	台北市興仁路二段
Payment method:	cash

ProductName	OrderID	ProductID	Quantity	UnitPrice
Waistbelt	161290322	P0004	2	2200
Proteinpowder(eas)	161290322	P0005	3	2000

Figure7. The Page of Invoice System

5. ContactUs page

   In this page, member can see the Google map site, phone, email,etc. which are some of gym contact information. And the member can still send some messages to coach.


Fitness Club.
Homepage
Register
Shop
CoachTeam
ContactUs
Send
Refill

Contact us

國立清華大學
顯示詳細地圖

300 新竹市東區,
光復路, 二段101號.
Freephone: 03-571 5131
Fax: 930-50000
E-mail:
s105034549@m105.nthu.edu.tw

Contact form

Name: Ming Chuan
MemberID: M0015
CoachName: Jack
Content:

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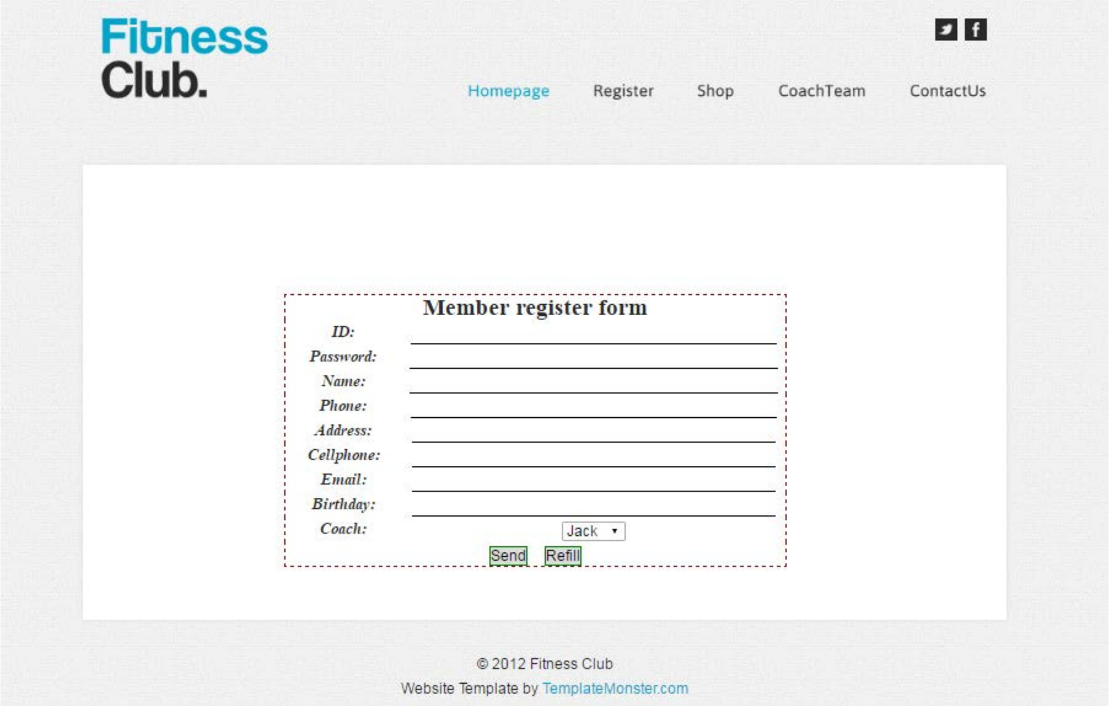
Figure8. The Page of ContactUs

6. Registration Page

When the customer still was non-member, they can go to this page to fill information and register. Then, they can go to homepage to log in.


Fitness Club.
Homepage
Register
Shop
CoachTeam
ContactUs
Send
Refill

Member register form

ID:
Password:
Name:
Phone:
Address:
Cellphone:
Email:
Birthday:
Coach: Jack

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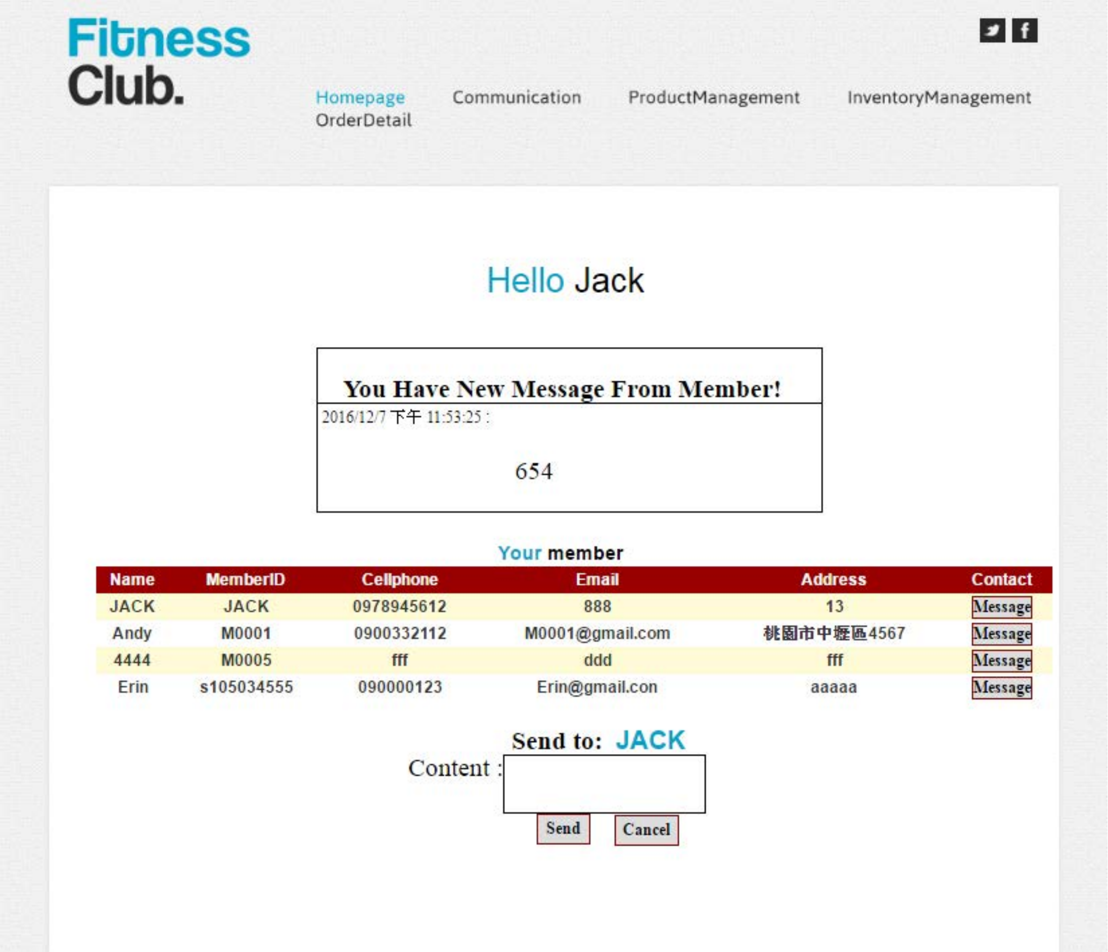
Figure9. The Page of Register

When we login as a coach account, we can see these pages:

1. Communicate Page

   When the management person login the web, we can see totally different with the customer account. First, we can see the list of member and content with them easily, which can depend on phone, email, address, massage, etc. And can send the message to member. That will more convenient to communication with each other.


Fitness
Club.
Homepage
Communication
ProductManagement
InventoryManagement
OrderDetail

Hello Jack

You Have New Message From Member!

2016/12/7 下午 11:53:25 :

654

Your member

Name	MemberID	Cellphone	Email	Address	Contact
JACK	JACK	0978945612	888	13	Message
Andy	M0001	0900332112	M0001@gmail.com	桃園市中壢區4567	Message
4444	M0005	fff	ddd	fff	Message
Erin	s105034555	090000123	Erin@gmail.con	aaaaa	Message

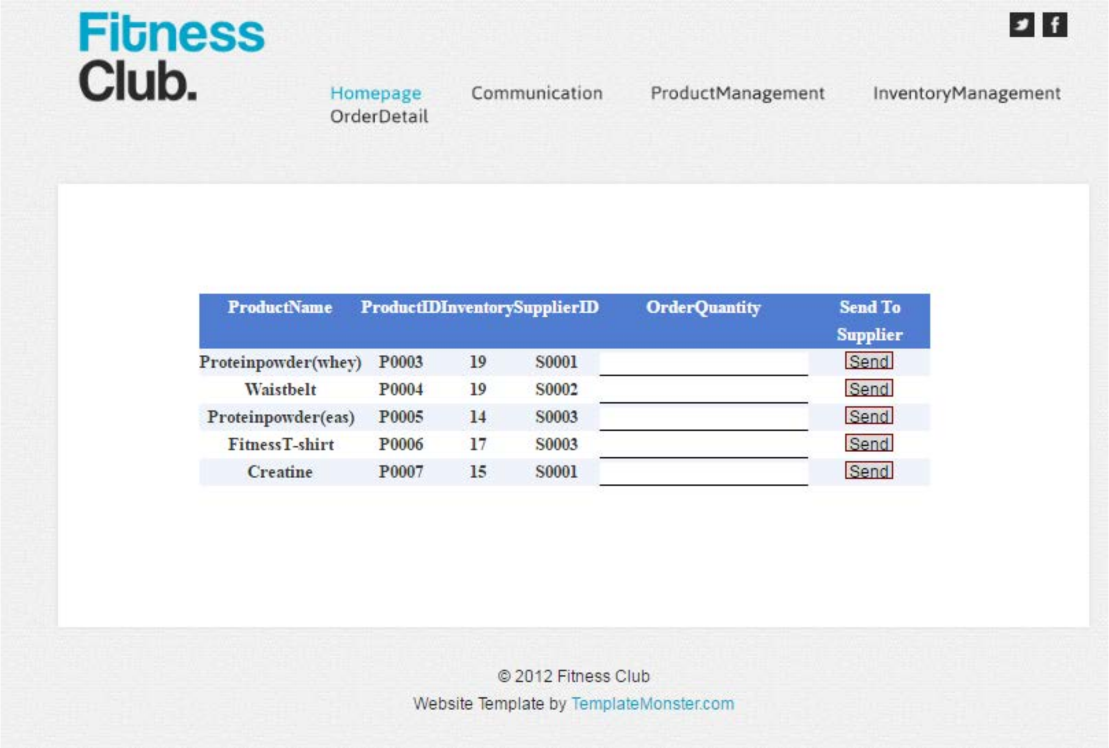
Send to: JACK

Content :

Send
Cancel

2. Contact Supplier Page

   This page provides the management people purchase the product to replenishment the inventory. We can see many information such as inventory, supplier, product, etc. With these info, we can decide when we need to order the product and make the purchase.


Fitness Club.
Homepage
OrderDetail
Communication
ProductManagement
InventoryManagement
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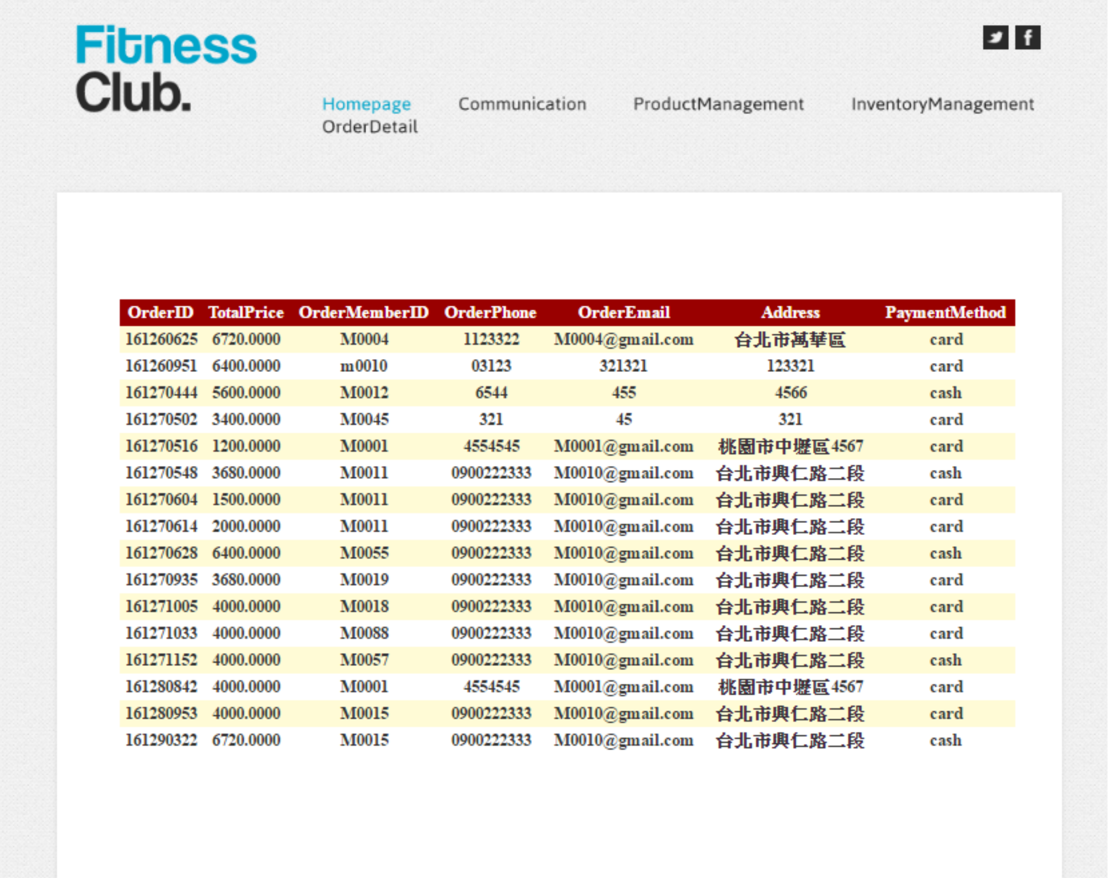
ProductName	ProductID	Inventory	SupplierID	OrderQuantity	Send To Supplier
Proteinpowder(whey)	P0003	19	S0001		Send
Waistbelt	P0004	19	S0002		Send
Proteinpowder(eas)	P0005	14	S0003		Send
FitnessT-shirt	P0006	17	S0003		Send
Creatine	P0007	15	S0001		Send

3. Order Detail Page

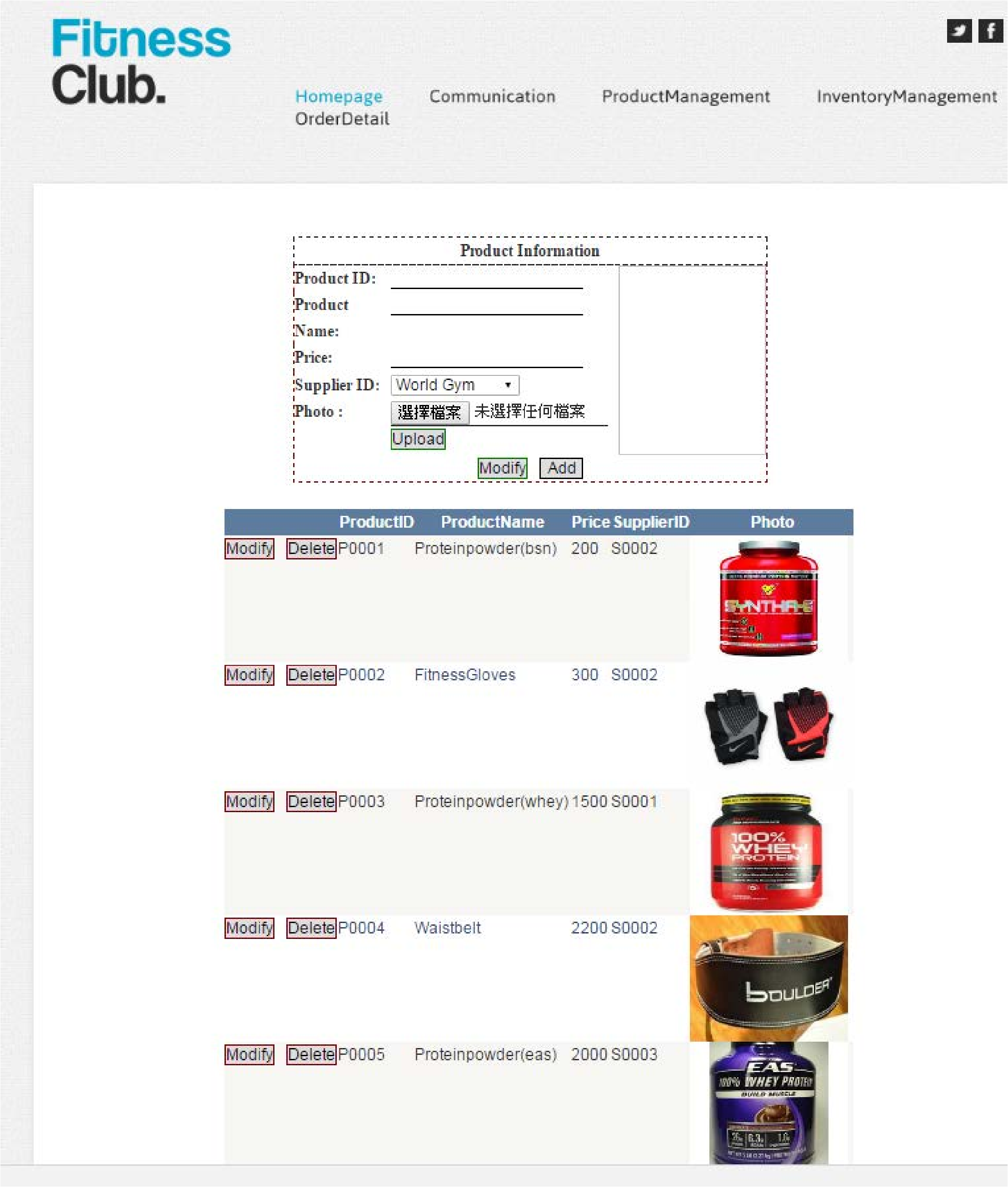
   Every order which place by the customer will shows up in the page, this page provide many business information such as order ID, total price, order member ID, phone number, email, address, payment method, etc.



OrderID	TotalPrice	OrderMemberID	OrderPhone	OrderEmail	Address	PaymentMethod
161260625	6720.0000	M0004	1123322	M0004@gmail.com	台北市萬華區	card
161260951	6400.0000	m0010	03123	321321	123321	card
161270444	5600.0000	M0012	6544	455	4566	cash
161270502	3400.0000	M0045	321	45	321	card
161270516	1200.0000	M0001	4554545	M0001@gmail.com	桃園市中壢區4567	card
161270548	3680.0000	M0011	0900222333	M0010@gmail.com	台北市興仁路二段	cash
161270604	1500.0000	M0011	0900222333	M0010@gmail.com	台北市興仁路二段	card
161270614	2000.0000	M0011	0900222333	M0010@gmail.com	台北市興仁路二段	card
161270628	6400.0000	M0055	0900222333	M0010@gmail.com	台北市興仁路二段	cash
161270935	3680.0000	M0019	0900222333	M0010@gmail.com	台北市興仁路二段	card
161271005	4000.0000	M0018	0900222333	M0010@gmail.com	台北市興仁路二段	card
161271033	4000.0000	M0088	0900222333	M0010@gmail.com	台北市興仁路二段	card
161271152	4000.0000	M0057	0900222333	M0010@gmail.com	台北市興仁路二段	cash
161280842	4000.0000	M0001	4554545	M0001@gmail.com	桃園市中壢區4567	card
161280953	4000.0000	M0015	0900222333	M0010@gmail.com	台北市興仁路二段	card
161290322	6720.0000	M0015	0900222333	M0010@gmail.com	台北市興仁路二段	cash

4. Product Management Page

   The management people can modify product info, which including price, production introduction, quantity, etc. We can also use this page to erase product or add new product into the site, updating the product info at anytime.


Fitness
Club.
Homepage
Communication
ProductManagement
InventoryManagement
OrderDetail

Product Information

Product ID:

Product Name:

Price:

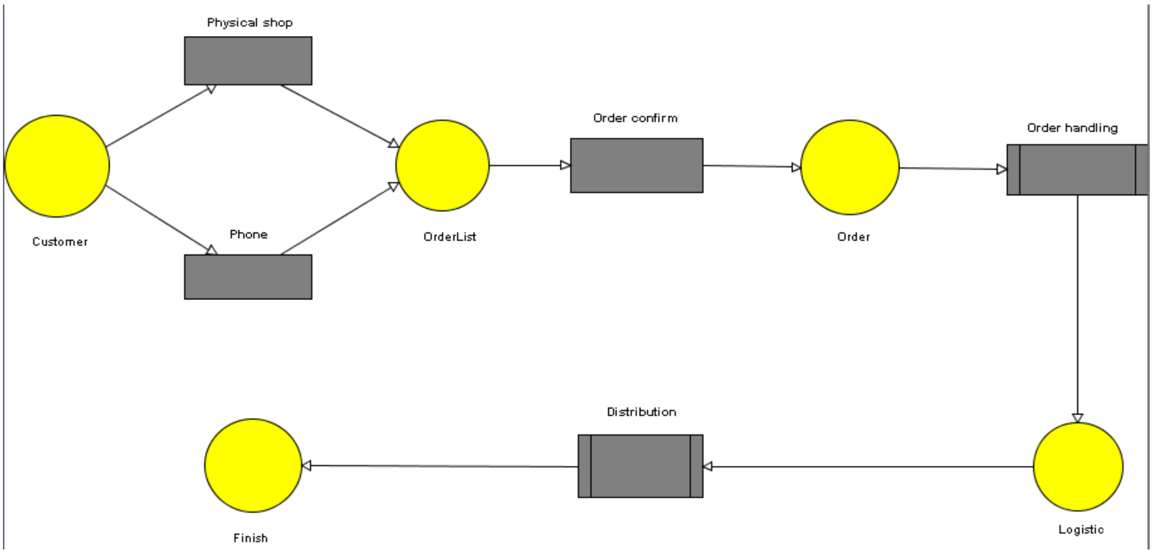
Supplier ID: World Gym

Photo : 選擇檔案 未選擇任何檔案

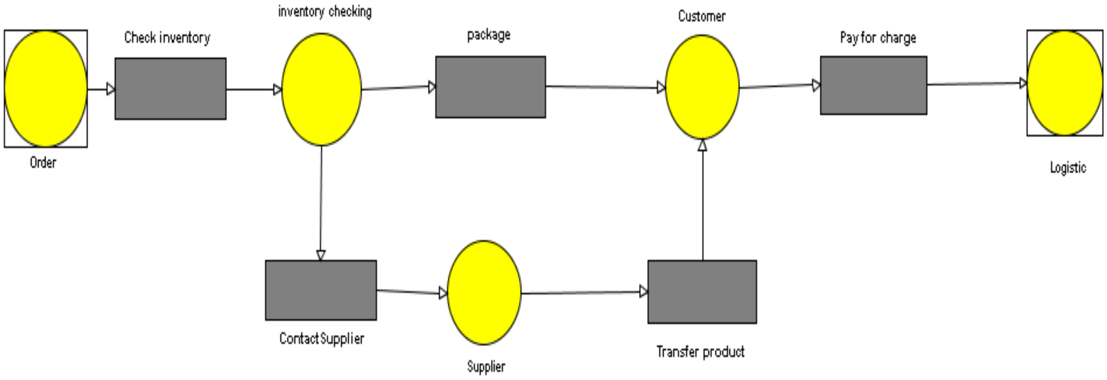
Upload
Modify
Add

		ProductID	ProductName	Price	SupplierID	Photo
Modify	Delete	P0001	Proteinpowder(bsn)	200	S0002	
Modify	Delete	P0002	FitnessGloves	300	S0002	
Modify	Delete	P0003	Proteinpowder(whey)	1500	S0001	
Modify	Delete	P0004	Waistbelt	2200	S0002	
Modify	Delete	P0005	Proteinpowder(eas)	2000	S0003	

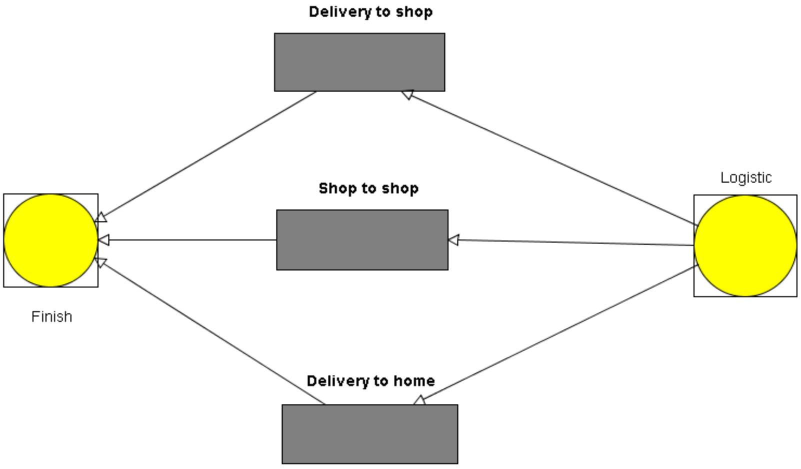
As Is Model:


Physical shop
Customer
Phone
OrderList
Order confirm
Order
Order handling
Distribution
Finish
Logistic

Drill down of Orderhandling

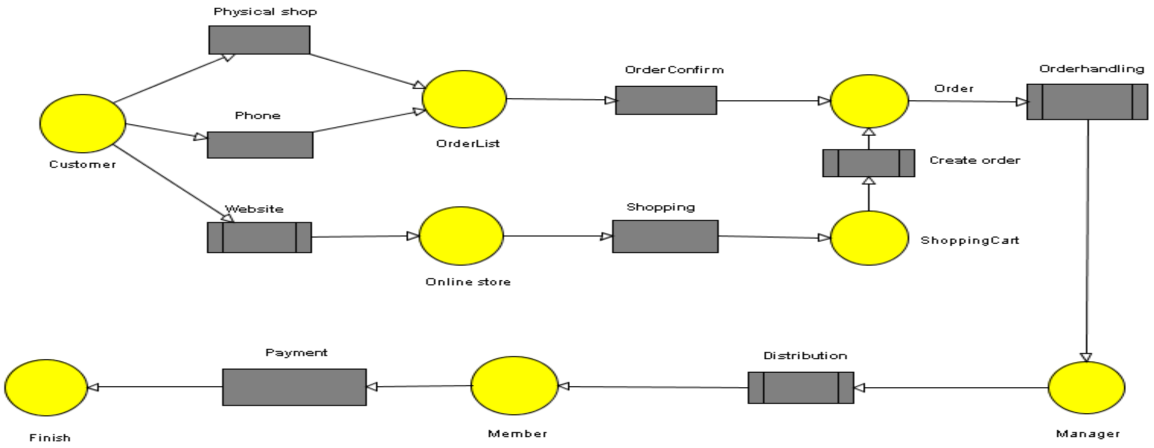

inventory checking
Check inventory
package
Customer
Pay for charge
Order
Logistic
ContactSupplier
Supplier
Transfer product

Drill down of distribution

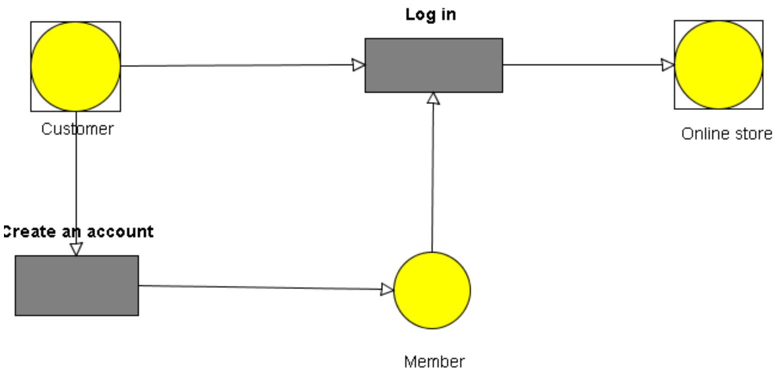

Delivery to shop
Shop to shop
Logistic
Finish
Delivery to home

In this model, there are two ways to make purchase which were physical shop and phone order. After the customer finish the order, the company will check the inventory are enough or not, if the inventory were enough, they will package the product to customer after they confirm the payment; and if the inventory isn’t enough, the company will purchase the product from the supplier. After all step is finished, the logistic will transfer the product to the customer on their designate way.

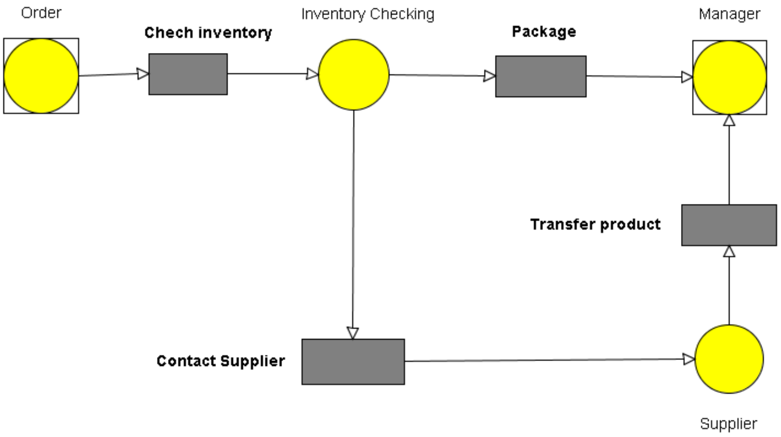
To Be Model:


Physical shop
Phone
Website
Customer
OrderList
Online store
OrderConfirm
Shopping
Order
Create order
ShoppingCart
Orderhandling
Manager
Distribution
Member
Payment
Finish

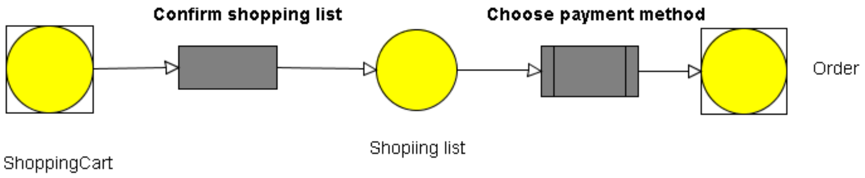
Drill down of website


Log in
Customer
Online store
Create an account
Member

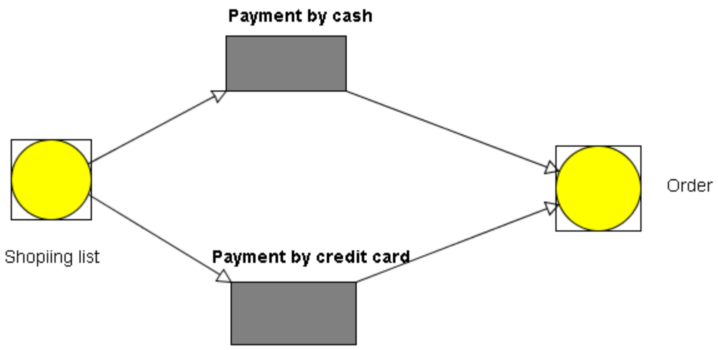
Drill down of Order handling


Order
Chech inventory
Inventory Checking
Package
Manager
Transfer product
Contact Supplier
Supplier

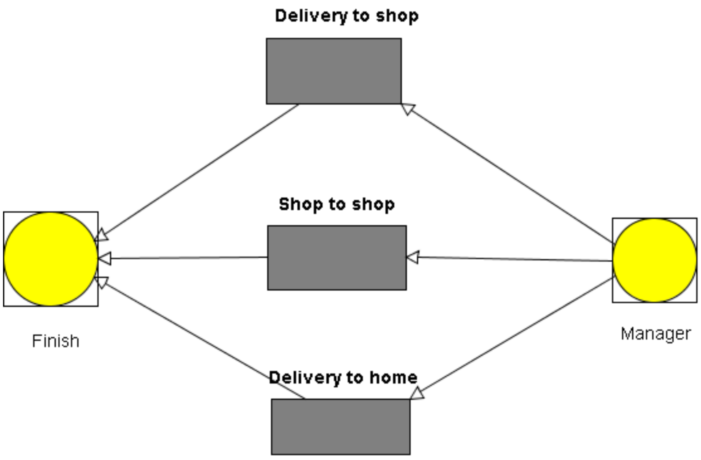
Drill down of Create Order


Confirm shopping list
Choose payment method
Order
ShoppingCart
Shopiing list

Drill down of choose PaymentMethod

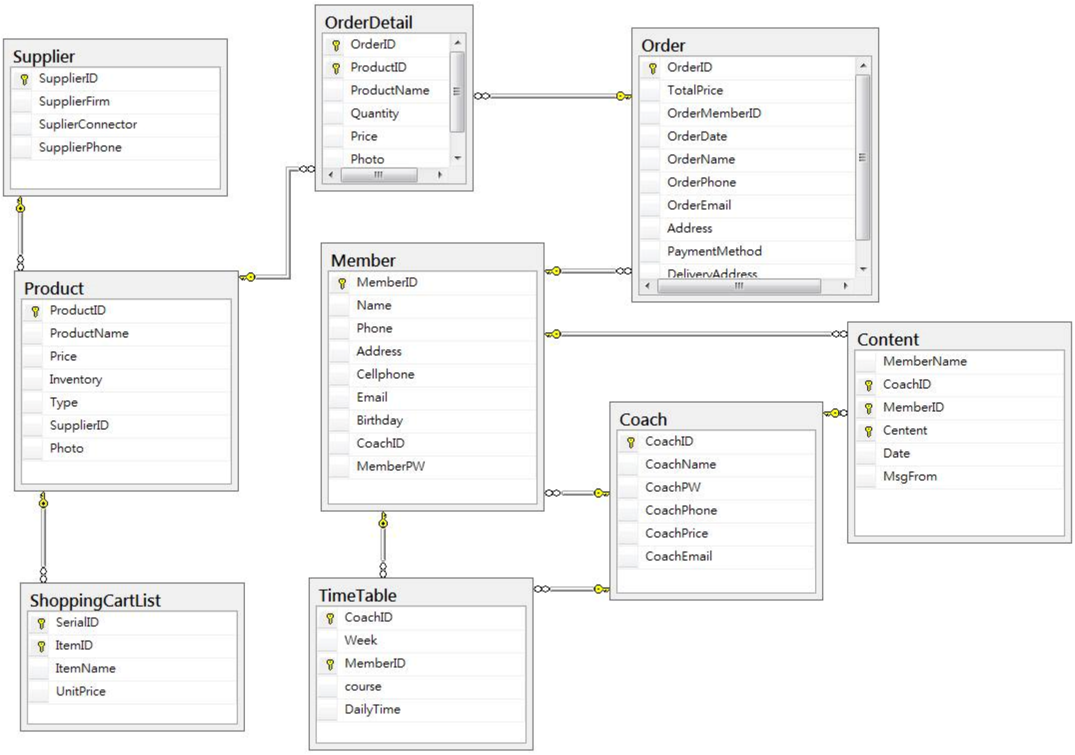

Payment by cash
Order
Shopiing list
Payment by credit card

Drill down of distribution

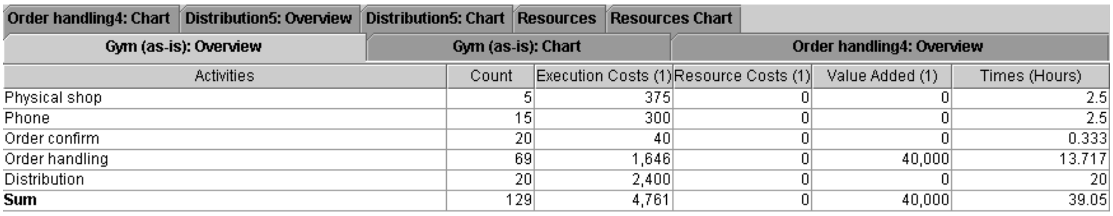

Delivery to shop
Shop to shop
Finish
Manager
Delivery to home

- ER-model.

In website, we need member list and coach list to login in. And there is aa function to make coach and member communicate to each other, so we have a table “content”. In order management, every order has its order details, it can show what product is ordered in each order. And product table connects to supplier table to know what supplier to call when the product in low stock level

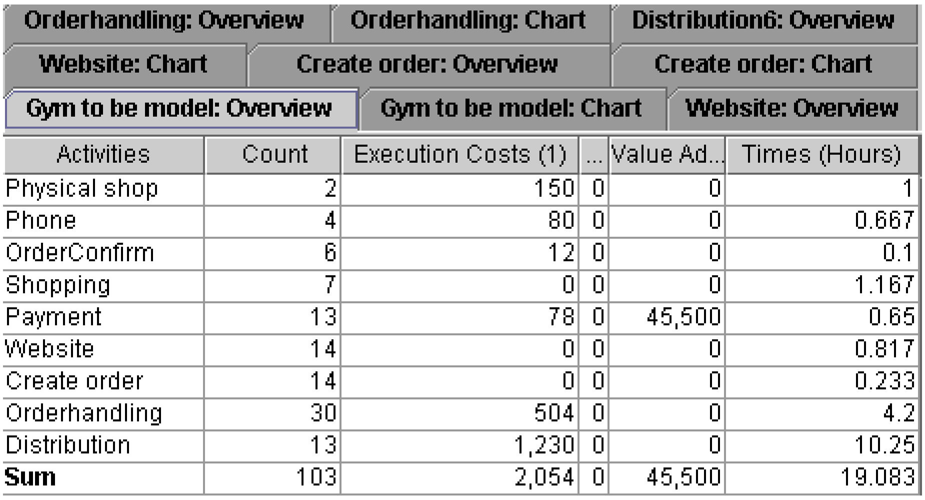

Supplier
SupplierID
SupplierFirm
SuplierConnector
SupplierPhone
OrderDetail
OrderID
ProductID
ProductName
Quantity
Price
Photo
Order
OrderID
TotalPrice
OrderMemberID
OrderDate
OrderName
OrderPhone
OrderEmail
Address
PaymentMethod
DeliveryAddress
Product
ProductID
ProductName
Price
Inventory
Type
SupplierID
Photo
Member
MemberID
Name
Phone
Address
Cellphone
Email
Birthday
CoachID
MemberPW
Content
MemberName
CoachID
MemberID
Centent
Date
MsgFrom
Coach
CoachID
CoachName
CoachPW
CoachPhone
CoachPrice
CoachEmail
ShoppingCartList
SerialID
ItemID
ItemName
UnitPrice
TimeTable
CoachID
Week
MemberID
course
DailyTime

In the future, we add a new channel to provide customer a new way to make purchase. This new channel is called the website, if the customer didn’t have account, they need to register first, when they can login then they can go to the online store. Otherwise, the gym will check the inventory after they confirm the order, they will package the product to customer after they confirm the payment; and if the inventory isn’t enough, the company will purchase the product from the supplier. After everything is done, the logistic will transfer the product to the customer on their designate way, and in this new way, customer can choose their payment which include credit card, cash, etc.


Order handling4: Chart
Distribution5: Overview
Distribution5: Chart
Resources
Resources Chart
Gym (as-is): Overview
Gym (as-is): Chart
Order handling4: Overview

Activities	Count	Execution Costs (1)	Resource Costs (1)	Value Added (1)	Times (Hours)
Physical shop	5	375	0	0	2.5
Phone	15	300	0	0	2.5
Order confirm	20	40	0	0	0.333
Order handling	69	1,646	0	40,000	13.717
Distribution	20	2,400	0	0	20
Sum	129	4,761	0	40,000	39.05

As Is Model Simulate Result


Orderhandling: Overview
Orderhandling: Chart
Distribution6: Overview
Website: Chart
Create order: Overview
Create order: Chart
Gym to be model: Overview
Gym to be model: Chart
Website: Overview

Activities	Count	Execution Costs (1)	...	Value Ad...	Times (Hours)
Physical shop	2	150	0	0	1
Phone	4	80	0	0	0.667
OrderConfirm	6	12	0	0	0.1
Shopping	7	0	0	0	1.167
Payment	13	78	0	45,500	0.65
Website	14	0	0	0	0.817
Create order	14	0	0	0	0.233
Orderhandling	30	504	0	0	4.2
Distribution	13	1,230	0	0	10.25
Sum	103	2,054	0	45,500	19.083

To Be Model Simulate Result

The cost and time were decreased, and the added value were increased. Cause of the website, we create more value for the enterprise.