

SALES SYSTEM

Database Project



Class ICT-k59

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PART I

INTRODUCTION

MOTIVATION

This project we are building aims to broaden our knowledge of designing a web page and database. In addition, this also helps find out how to link databases with a client system.

Furthermore, by working on the same project, we learn to enhance team-work skills, use source control effectively.

PROBLEM DEFINITION

A series of stores needs a new simple method to manage their goods due to the fact that they want to get rid of using books and papers. A system installed like a web page could suit their needs. This system offers basic functions; besides, it is very easy, flexible to get along with.

REQUIREMENTS

1. For managers only (not customers).
2. An eyes-catching interface.
3. Easy for non-IT people to operate.
4. Smart database that serves a huge amount of products.
5. Function for catalogs, products, customers.
6. Be able to manage individual store (seller, admin).

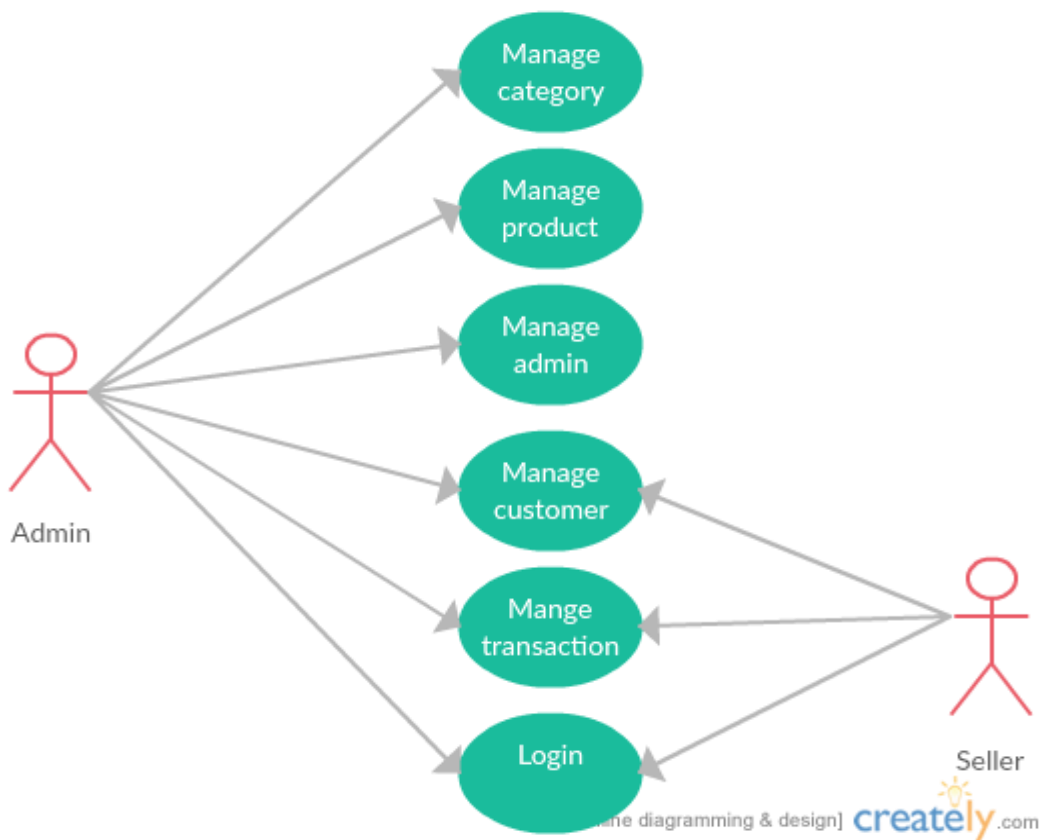
PART II

DATA ANALYSIS

USE CASE DIAGRAM

In term the website developed for manager only, we choose two Actor which here are Admin - owner of the retails chain and Seller - seller of a chain store.

General use case diagram:



Use case 1. General use case

Branch use case diagram:



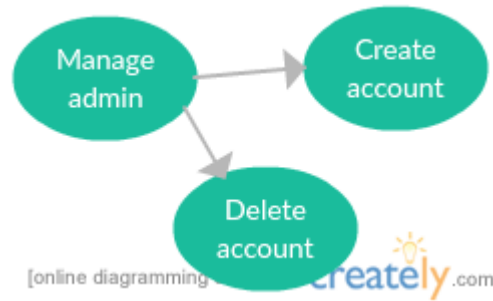
Use case 2. Manage product



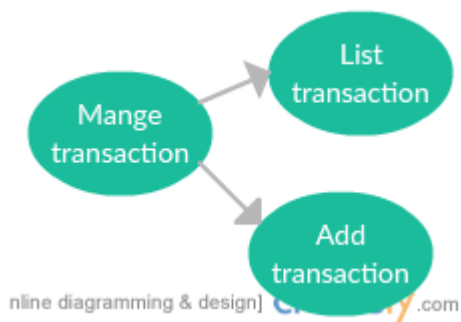
Use case 3. Manage customer



Use case 4. Manage category



Use case 5. Manage admin



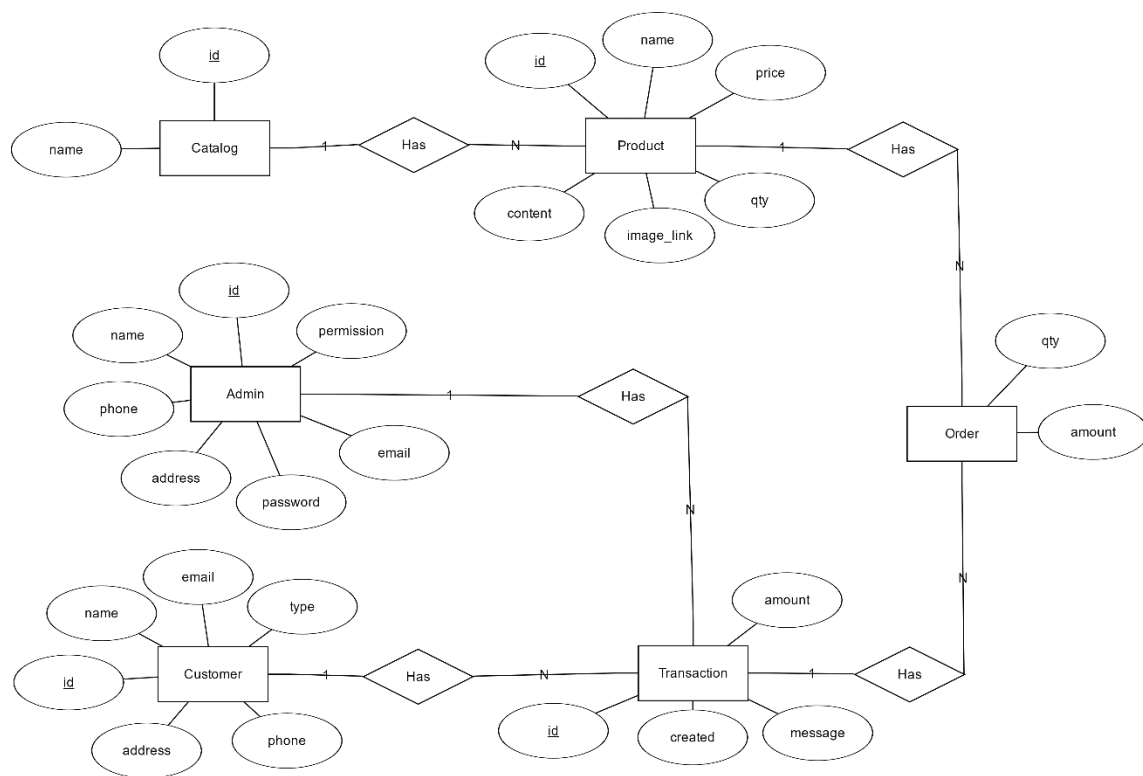
Use case 6. Manage transaction

PART III

DATABASE

DESIGN

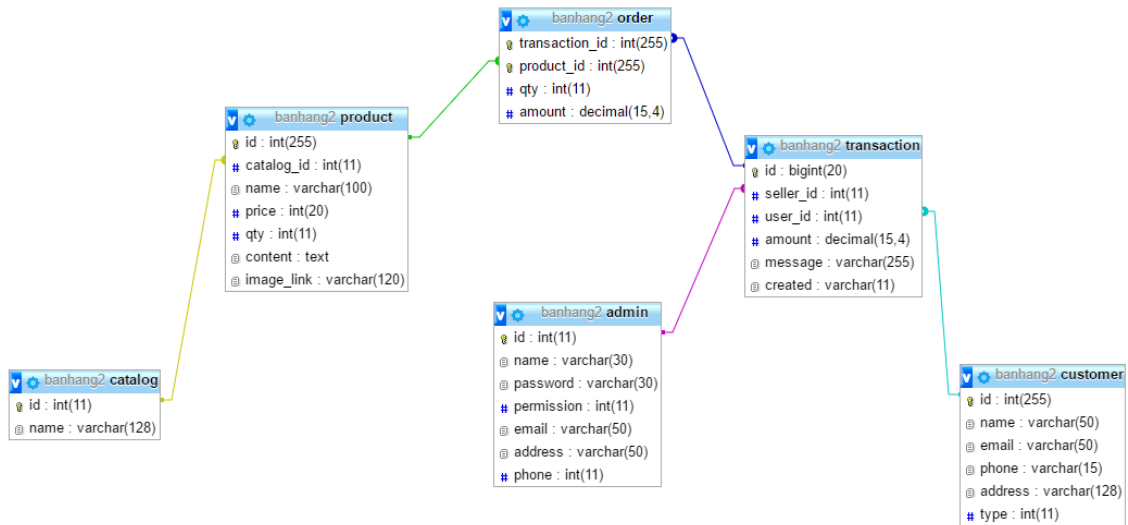
ER MODEL



CONVERT DIAGRAM TO RELATION

- Catalog(id#,name)
- Product(id#,catalog_id#,name,price,qty,content,image_link)
- Order(transaction_id#,product_id#,qty,amount)
- Transaction(id#,seller_id#,user_id#,amount,message,created)
- Admin(id#,name,password,permission,email,address,phone)
- Customer(id#,name,email,phone,address,type)

SCHEMA

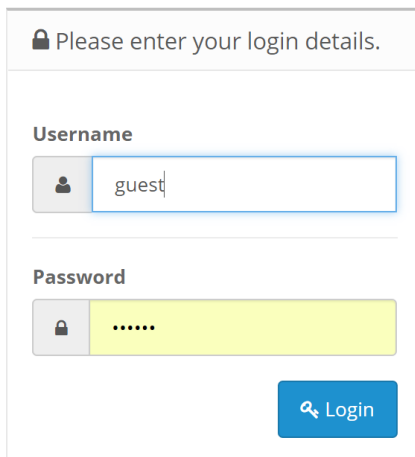


PART IV

CONCLUSION AND RESULT

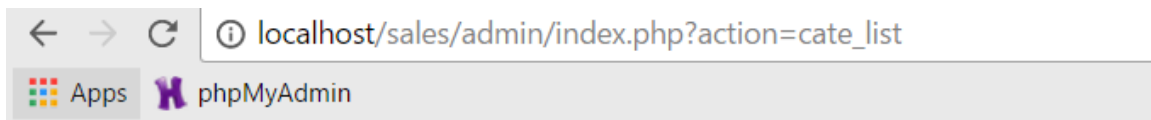
WEB DESIGN

Login Interface, you could be admin or seller, admin has full permission to maintain catalogs, products, current sellers. On another hand, sellers only have some limit functions.



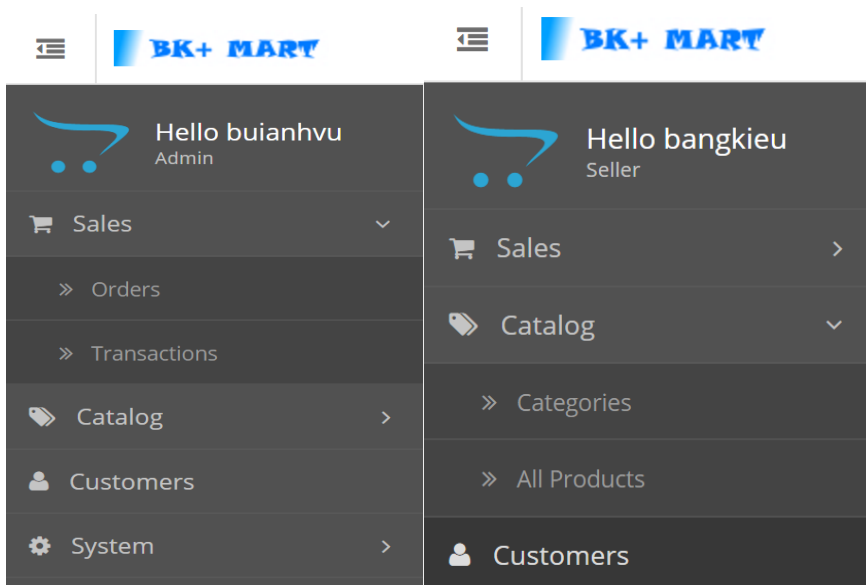
A login form with a light gray border. At the top, it says "Please enter your login details." with a lock icon. Below this, there are two input fields. The first is labeled "Username" and contains the text "guest". The second is labeled "Password" and contains six dots. To the right of the password field is a blue "Login" button with a white magnifying glass icon.

You will be taken to this page if you try to get in without login.












YOU DO NOT OWN PERMISSION TO ACCESS THIS PAGE !













Smart Sidebar with all operations, showing your brief information:



Catalogues menu looks like this

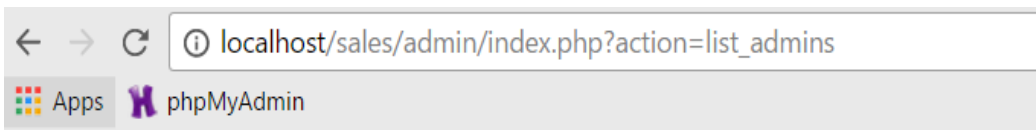
Category list			
<input type="checkbox"/>	Category Name ▾	ID nhóm	Tùy chọn
<input type="checkbox"/>	HEADPHONES AND EARPHONES	40	 
<input type="checkbox"/>	SHAMPOO	39	 
<input type="checkbox"/>	FRUIT	38	 
<input type="checkbox"/>	GLASSES	42	 
<input type="checkbox"/>	CLOTHES	43	 

Inside a particular catalog, SHAMPOO for instance, is the list of products belongs to that catalog

<input type="checkbox"/>	Image	Product Name	Price	Quantity	Infomation ▼	Action
<input type="checkbox"/>		Dove Shampoo	22	177	Shampoo DOVE is a hair care product, typically in the form of a viscous liquid, that is used for cleaning hair. Less commonly, shampoo is available in bar form, like a bar of soap. Shampoo is used by applying it to wet hair, massaging the product into the hair, and then rinsing it out. Some users may follow a shampooing with the use of hair conditioner.	 
<input type="checkbox"/>		Nilla Shampoo	43.12	124	As seen in the NHS, Nilaqua "towel off" shampoo allows you to wash hair effectively without water or rinsing. Easily removing dirt, grease and odours. Leaves hair beautifully soft and clean. Read more at http://www.boots.com/nilaqua-towel-off-shampoo-200ml-10219519#dD17V6qyy6hiOBE0.99	 
<input type="checkbox"/>		Zerreau Towel Off Strawberry Shampoo 180ml	6.63	124	Zerreau's hybrid dry shampoo, washes hair effectively without the need for water or rinsing. Zerreau has all the cleaning power of traditional wet shampoo, coupled with all the convenience of a dry shampoo! Read more at http://www.boots.com/zerreau-towel-off-strawberry-shampoo-180ml-10219517#7cDixYi77qELEqBc.99 Key Features NEW Hybrid Shampoo (not a spray or powder) No water or rinsing required No alcohol or parabens Works on all hair types including Afro Hair Gorgeous strawberry scent Read more at http://www.boots.com/zerreau-towel-off-strawberry-shampoo-180ml-10219517#7cDixYi77qELEqBc.99	 
<input type="checkbox"/>		Bleach Silver Shampoo 250ml	6.5	33	Product details For blondes that constantly strive for whiter, brighter colour. Use this shampoo every other wash to keep your perfect ashy blonde tone. With wheat proteins and vitamin B5 to moisturise your hair How to use Directions for use: Lather into wet hair and massage through to the ends. Rinse well and follow with Bleach London Silver Conditioner. Read more at http://www.boots.com/bleach-silver-shampoo-250ml-10164635#tqAPTDHYry2GFBu7.99	 





















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Unless you are one of those admins, you can edit, add, delete catalogs, products, other admins, sellers, or this might reminds you.



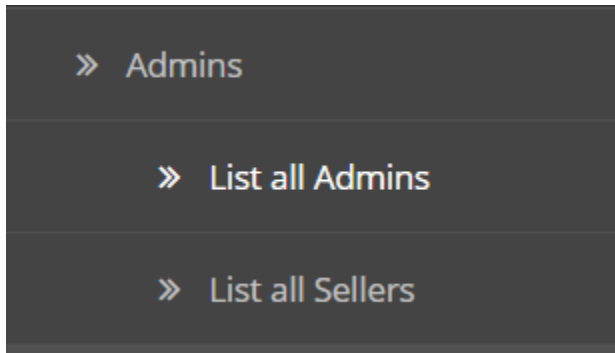
YOU MUST BE ADMIN TO USE THIS FUNCTION !

Customers List:

Customers Home / Customers						
Customers list						
ID	Customer Name	E-mail	Phone Number	Address	Discount	Option
1	Trần Việt Hải	hiddsuusuun@gmail.com	987654321	Mỹ Đình	15%	 
2	Bùi Anh Vũ	jjjjjjjjjj@hust.com	0147852369	Hoàng Mai	0%	 
3	Bùi Thiên Bảo	thathu@qwer.com	0369852147	Hải Phòng	0%	 
5	Tha Thu	jjjjjjjj@gmail.com	01478789789	hà noi	5%	 
6	John Cena	john@hihi.com	4744444744	USA	15%	 
7	Nà Tra	natra@gmail.cc	123987654	o dau con lau moi noi	5%	 
8	Thủy Kiều	kleuxinhgai@thathinh.com	02554899999	USA	5%	 
9	Thủy Vân	vandamdang@thathinh.com	08444755444	USA	0%	 
10	Kim Trọng	trongtrang@thathinh.com	03223236565	USA	15%	 
11	Sơn Tinh	moutaintinh@thathinh.com	02144545555	USA	0%	 




PAGE 1 2 3

An admin could manage all seller and other admins:






Admins

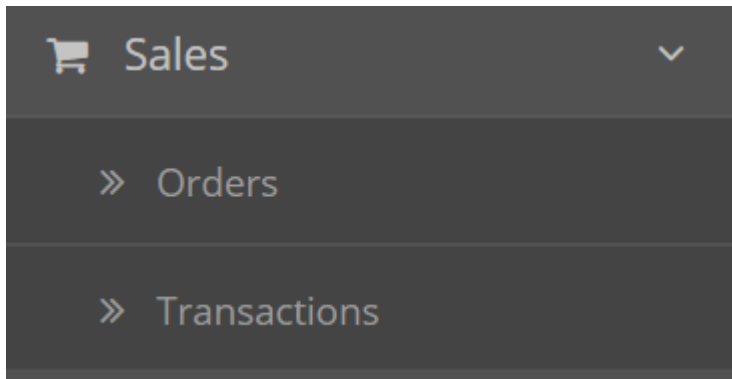


Admin list						
<input type="checkbox"/>	ID	Admin	E-mail	Phone Number	Address	Option
<input type="checkbox"/>	1	Hai Tran	haitran@gmail.com	123456789	hanoi	
<input type="checkbox"/>	4	buianhvu	buianhvu.hust@gmail.com	123456789	Ha Noi	
<input type="checkbox"/>	7	buihienbao	baobeo@gmail.com	123456789	Hai Phong	
PAGE 1						

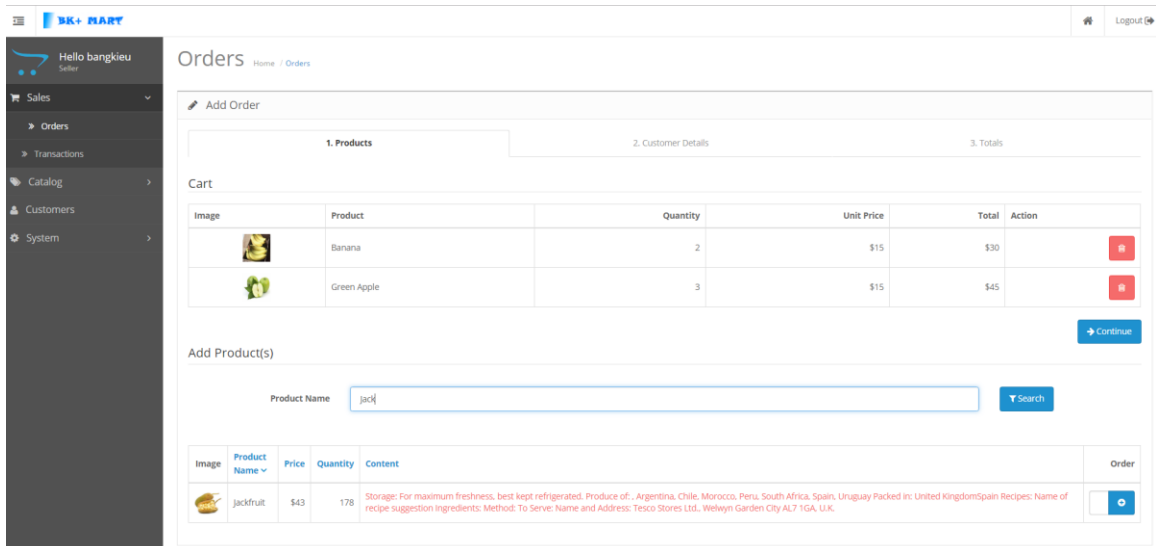
Sellers

Seller list						
<input type="checkbox"/>	ID	Admin	E-mail	Phone Number	Address	Option
<input type="checkbox"/>	3	bestseller	bezt@gmail.com	2132131232	USA	
<input type="checkbox"/>	5	bangkieu	bangkieu@gmail.com	123456788	Ngo Si Lien, Ha Noi	
<input type="checkbox"/>	6	thuykieu	thuykieu@gmail.com	123456789	Lau Ngung Bich	
PAGE 1						

Sales function is used for both admins and sellers



To start adding products into a “cart”, you must use this Orders functions.



Click continue, then fulfill the blank spaces of customer's info:

Orders [Home](#) / [Orders](#)

Add Order

1. Products 2. Customer Details 3. Totals

* Customer's name

* E-Mail

* Telephone

* Address

Customer's Type

[Back](#) [Continue](#)

If the customer has already been in the system, just choose one in the suggestion and all the fields are automatically inserted. If not, enter new info for new customer.

Add Order

1. Products 2. Customer Details 3. Totals

* Customer's name

* E-Mail

* Telephone

* Address

Customer's Type




[Back](#) [Continue](#)

Seller or admin could adjust before continuing the customer's Type for different discount:

Customer's Type

Silver

Click Continue, you get this below receipt.

Image	Product	Quantity	Unit Price	Total
	Banana	3	\$15	\$45
	Green Apple	2	\$15	\$30
	Jackfruit	2	\$43	\$86
Sub-Total:				\$161
Discount:				0%
Total:				\$161

Order Details

Transaction Details

3/6/2017

Bronze Class

0% Discount

\$161

Customer Details

Bùi Thiên Bảo

thathu@qwer.com

369852147

Hải Phòng

Comment: Giao hàng lúc 3h20 chiều, tại số 32 Xuân Lạ

[Back](#) [Save](#)

Click Save, and this row then appears in the Transaction List.

Transactions [Home](#) / [Sales](#) / [Transactions](#) [Refresh](#)

Transactions list

ID	Seller ID	Customer name	Amount	Message	Created
4	5	Thúy Kiều	112.1000	Hẹn giao hàng lúc 2h30 chiều, tại quán trên số 456 đường Thanh Niên.	2/6/2017
5	5	Bùi Thiên Bảo	161.0000	Giao hàng lúc 3h20 chiều, tại số 32 Xuân La	3/6/2017

PAGE 1

Once you are done with works, click Logout button on the upper right corner:



ACHIEVEMENTS

- *Create and implement database*
- *Manage and connect to server side MySQL database*
- *The website has achieved basic requirement*
- *Learn new coding language like JavaScript, PHP, ...*
- *Use source control in a group project*

DEVELOPMENT ORIENTATION

- *Develop language system*
- *Link to other websites of product's reviews*
- *Develop system to be able to handle bigger database*
- *Notification system for Admin to restock product*
- *Analysis selling data providing Admin information manage sale product and category efficiency*

REFERENCES

1. GENERAL KNOWLEDGE ABOUT HTML, CSS, JAVASCRIPT, MySQL, PHP

- Website W3Schools Online Web Tutorials: www.w3schools.com
- Website Wikipedia, the free encyclopedia: www.wikipedia.org

2. DATABASE

- E-book: Database Management Systems (3rd edition). 2003. Raghu Ramakrishnan, Johannes Gehrke
- E-book: Fundamentals of Database Systems (4th edition). 2003. Ramez Elmasri, Shamkant B. Navathe
- E-book: The Language of SQL How to Access Data in Relational Databases. 2010. Larry Rockoff

3. DEVELOPED AND DESIGN TOOLS, IDE

- IDE Netbean, Google Chrome, XAMPP for server
- Drawing tool: creately.com
- Web template: opencart.com

In the progress of making the website, we resolved variable occurred problems with the help of Google search tool and a lot of IT forums.