FPT ACADEMY INTERNATIONAL

FPT – APTECH COMPUTER EDUCATION

HARMONIC

Supervisor: *LÊ THANH NHÂN*

Semester: *II*

Batch No: *T1.2011.M0*

Group No: *02*

Order:	Full name	Roll No.
1.	*DINH NGOC MINH HIEU*	*Student1285592*
2.	*PHAM TRAN HOANG ANH*	*Student1285593*
3.	*NGUYEN TRAN HOANG PHUC*	*Student1286085*
4.	*VAN KHANH PHAT*	*Student1275262*

***Month**: 09 **Year**: 2021*

This is to certify that

Mr. **ĐINH NGỌC MINH HIẾU**

Mr. **PHAM TRAN HOANG ANH**

Ms. **NGUYỄN TRẦN HOÀNG PHÚC**

Ms. **VĂN KHÁNH PHÁT**

Have successfully Designed & Developed

HARMONIC

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

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Content

Acknowledge

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Acknowledge

Our group would like to devote this chapter to express our deepest appreciation to all those who offered us valuable assistance during in carrying out this project .

First and foremost, we own a debt of gratitude to our dedicated instructor, **Mr. Le Thanh Nhan,** whose suggestions and encouragement helped us to overcome not only technological challenges but also psychological tension. Without him, our work could not have been completed successfully.

Secondly, we highly appreciate **Fpt-Aptech** Institution which has provided us a golden opportunity to apply what we learned into practice. We are certain that the experiences we gained from this project will facilitate our future career greatly.

Finally, we wish to say a personal thank you to all our dear classmates who are always willing to support us openly and enthusiastically.

Your Sincerely, Team Group 02.

Synposis

Without a doubt, thanks to the advent of the Internet, every aspect of our lives has improved a lot, especially online business. Living in the time of the CoVid-19 pandemic, it is extremely difficult to buy directly, so now we can buy anything with just one click.

For this reason, some fashion stores have taken advantage of the Internet to promote their brands and attract more potential customers through their websites. Therefore, this method has the potential to increase revenue significantly.

HARMONIC, a small fashion store, has noticed this trend. Therefore, they asked us to create a website so that people can easily order the items they love without having to go out to the store in person. Moreover, the company wants to Get customer feedback to improve our service better and better.

In addition, our team **HARMONIC** designed a system that can manage products (update, delete or search…) and track customer orders.

Review 01

Problem Definition

These days in the hustle and bustle of people's lives, taking time to go out to shop has become a luxury. Worries about unsafe traffic and restrictions on traditional purchases avoidable while shopping online. With online shopping, you don't have to worry about weather conditions either. Consumers and customers who are organizations, companies, etc. are gradually turning to online shopping to save time.

That's why online shopping becomes more and more important and necessary. With just one click, they can get the product they want. Online shopping has many advantages that you can own everything. through mouse clicks rather than going to the place to buy. After going to the sales website, choose a product, just place an order (order) and the seller will bring the product to your home. Online shopping allows you to shop whenever you want. Online stores never close, can shop 24/24 hours and 7 days a week. Shopping in markets, malls or stores is difficult for you to compare the characteristics and prices of products with each other. When shopping online, you can easily compare and choose the most suitable product. Sometimes you run into difficult salespeople at certain sales locations. Online shopping, customers do not have to pay attention to that anymore. Therefore, **HARMONIC** based on the above criteria has developed a website so that customers can trust and shop comfortably without having to think much. Saving your cost, time and effort is our top priority**.**

The Role of User and Admin:

❖ For visitor's website

- The homepage will give a brief introduction of the company, also design a suitable logo and put it on the homepage, you can display the logo on all the pages in the website
- A menu will include all the functions implemented in the website
- A catalog should be provided to help visitors select and order desired products
- The shopping cart will store the customer's order and print the invoice after they check out
- The contact us page will show the address along with their location on the map.
- At the same time, the Contact Us page allows visitors to express their evaluation of service quality from HARMONIC

❖ For admin site

- The login page will grant access to the HARMONIC administrator
- The HARMONIC admin management page will be used to insert, delete or update the HARMONIC menu as well as track orders, account information and customer feedback.
- Management page for Webmasters to insert, update, delete accounts of HARMONIC administrators based on its executivesUser.

Customer Requirements Specifications

USER:

Input:

-Member registration information.

-Login, logout

-View product's information.

-Order selected products.

Process:

-Search products from database by categories, by product types.

-Process customer registration information.

-Process customer orders.

Output:

-Notification of successful registration / failure.

-Product information.

-View bought history.

-Notification of successful making order order.

ADMIN:

Input:

-Administrator login information .

-Product and category information to add / edit / delete.

-Member information to be search / delete.

-Order information to be search / approve.

Process:

-Add / edit / delete products.

-View information of all members.

-Change member account's status.

-View all orders.

-Update order status.

Output:

-Notification to add / edit / delete products success / failure.

-Notification to change member account's status.

-Notification to update order's status.

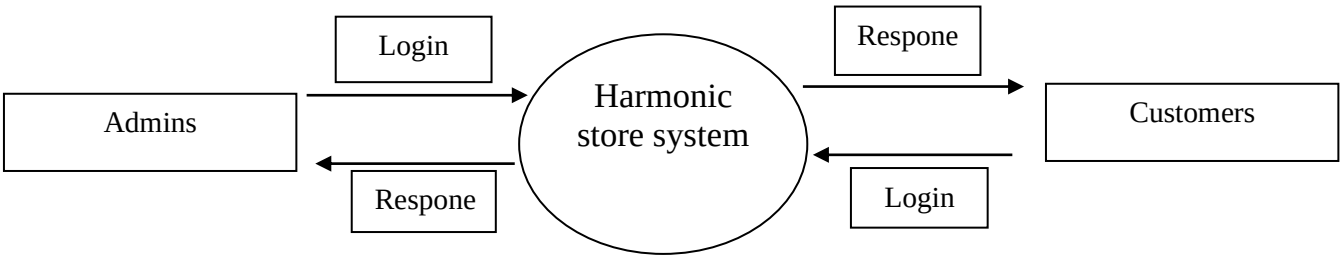
Note: Constraint validation must be provided wherever necessary. And the website should have the smooth navigations.

Sr.	Item	Description
1.	Operating System	Window 7,8, or higher
2.	Hardware	CPU Cores or better with 2 Gigabytes of RAM better
3.	Web Browser	Version in later of: Edge, Firefox, Chrome,etc..
4.	Fonts	Standard font Unicode: Arial, Tahoma, Lucida, Console, Times New Roman, etc
5.	Other requirement	NodeJs, Git, XAMPP 7.3 or later | A working internet connection

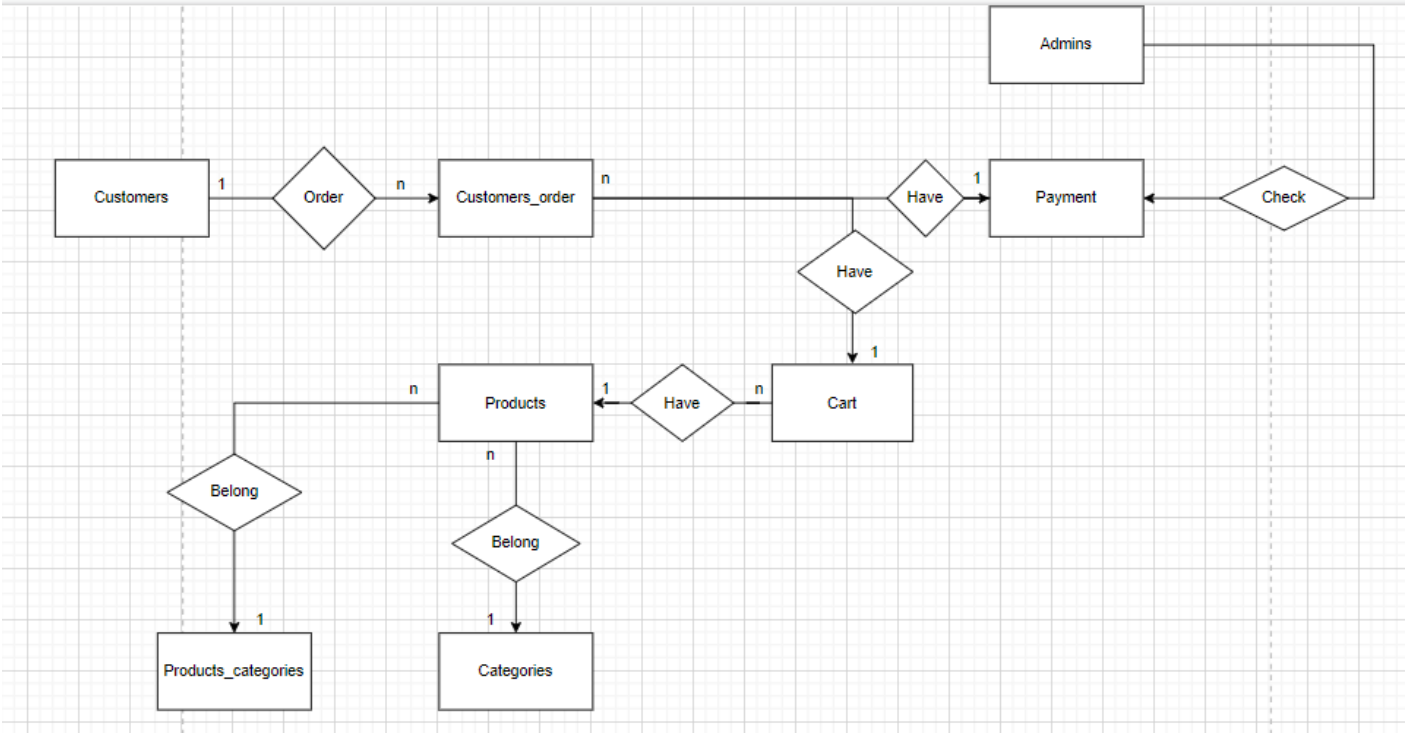
Review 02

Data Flow Diagram

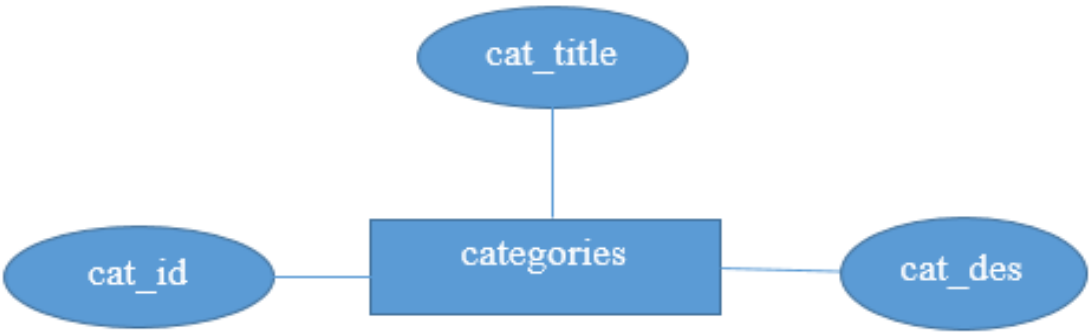
DFD level 0

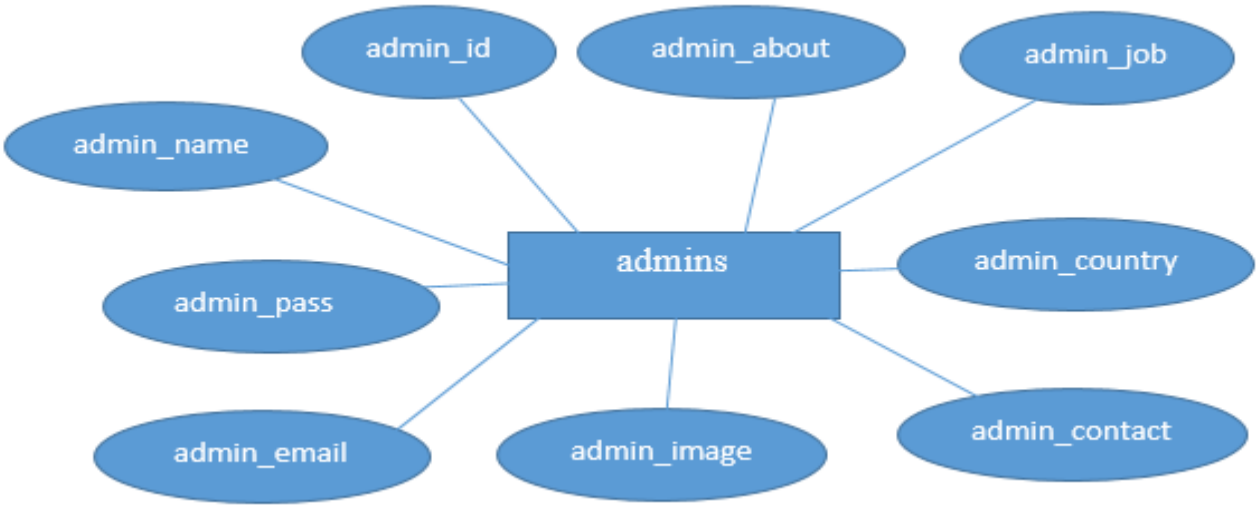


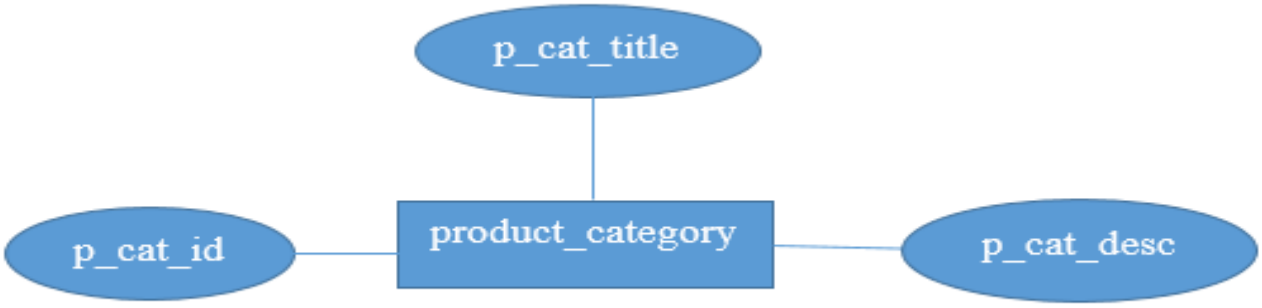
A. ERD

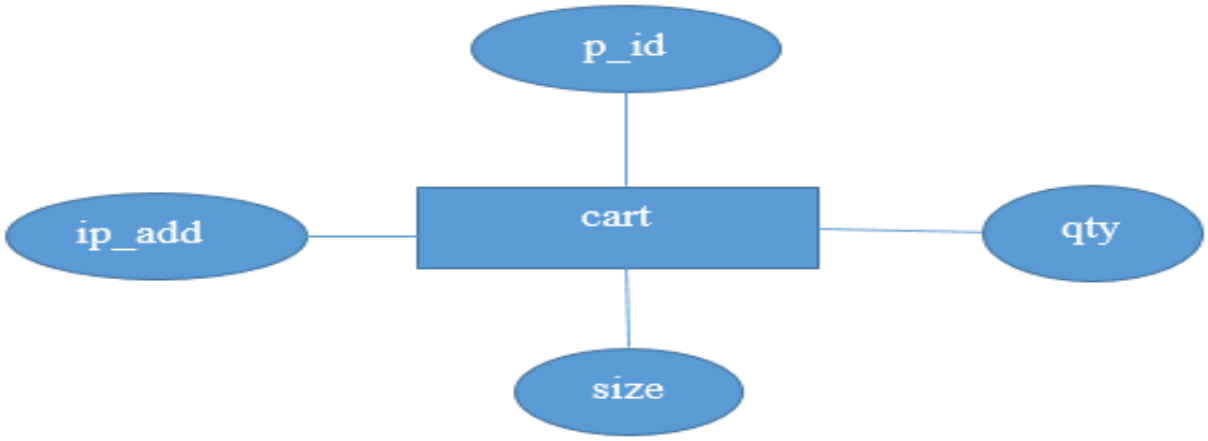


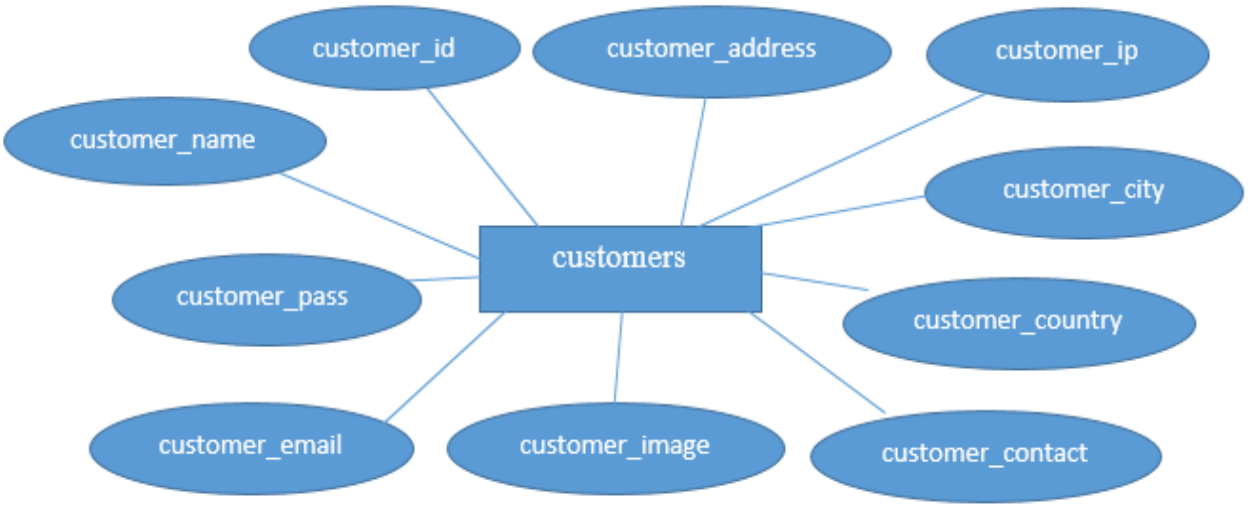
B. ERD Properties

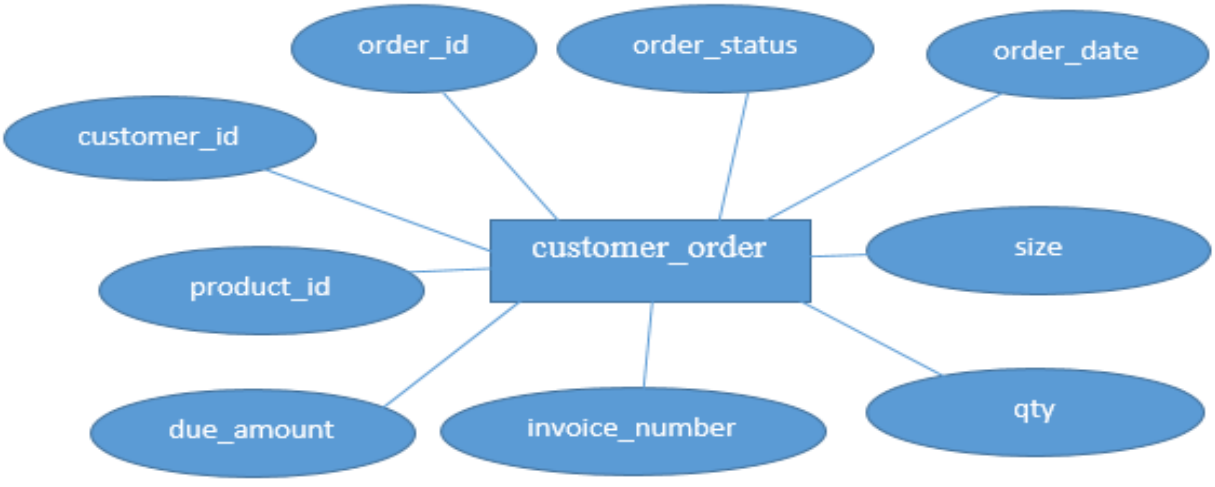


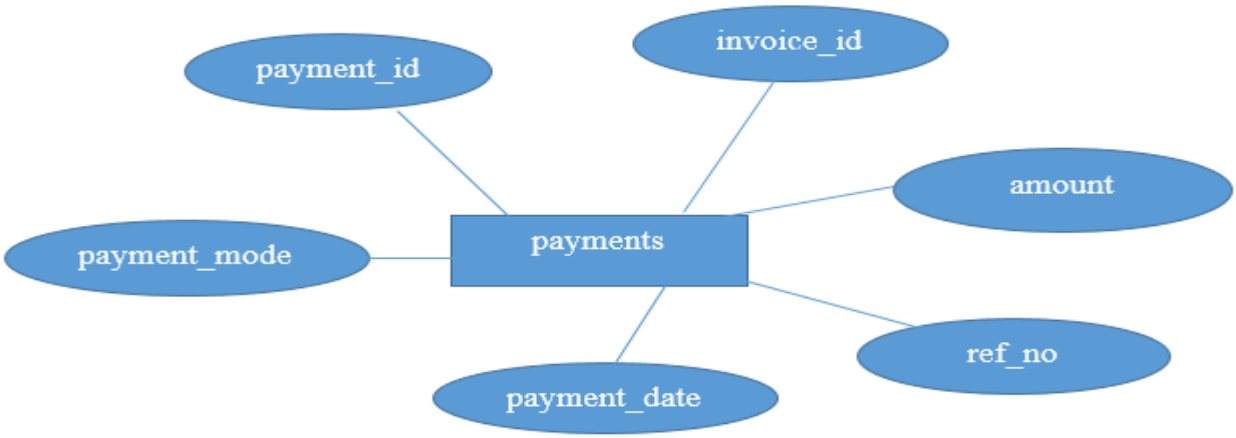

admin_id
admin_about
admin_job
admin_name
admins
admin_country
admin_pass
admin_email
admin_image
admin_contact

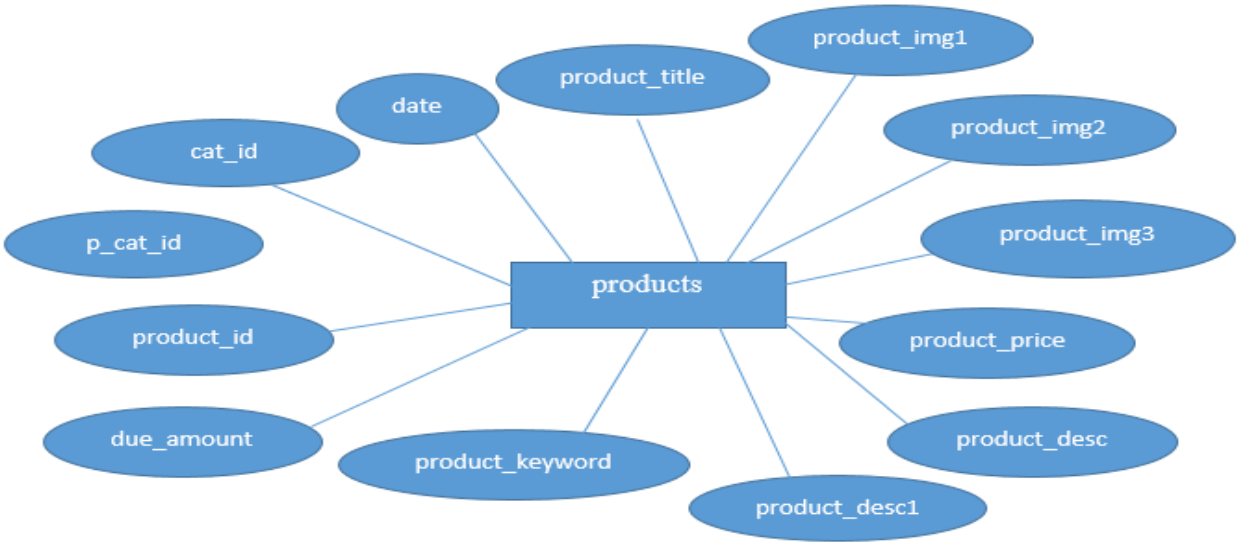

p_cat_title
p_cat_id
product_category
p_cat_desc

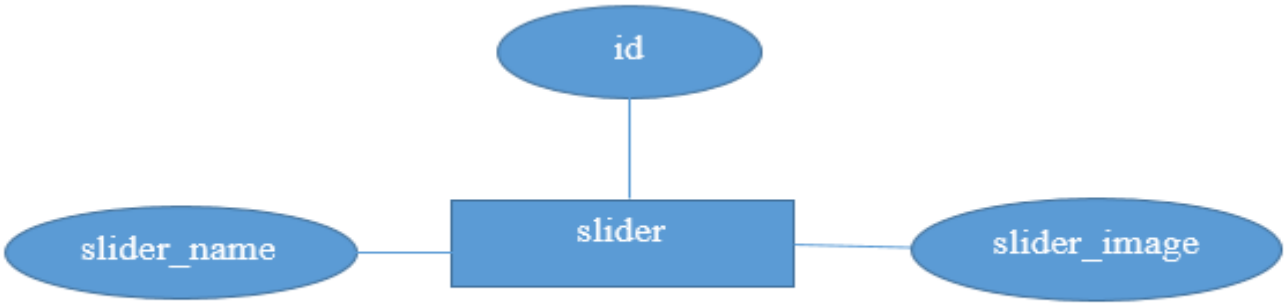

p_id
ip_add
cart
qty
size


customer_id
customer_address
customer_ip
customer_name
customer_city
customers
customer_pass
customer_country
customer_email
customer_image
customer_contact


order_id
order_status
order_date
customer_id
customer_order
size
product_id
due_amount
invoice_number
qty


payment_id
invoice_id
amount
payment_mode
payments
ref_no
payment_date


product_img1
product_title
date
product_img2
cat_id
p_cat_id
product_img3
products
product_id
product_price
due_amount
product_keyword
product_desc
product_desc1


id
slider_name
slider
slider_image

A. Table Design

Table: admin

Column Names	Data type	Null	Key	Note
admin_id	int(100)	No	primary key	Admin identification
admin_name	varchar(255)	No		Admin name
admin_email	varchar(255)	No		Admin email
admin_pass	varchar(255)	No		Admin password
admin_image	varchar(255)	No		Admin image
admin_contact	text	No		Admin contact
admin_country	text	No		Admin country
admin_job	text	No		Admin job
admin_about	varchar(100)	No		Admin about

Table: customers

Column Names	Data type	Null	Key	Note
customer_id	int(100)	No	primary key	customer identification
customer_name	varchar(255)	No		Customer name
customer_email	varchar(255)	No		Customer email
customer_pass	varchar(255)	No		Customer pass
customer_country	text	No		Customer country
customer_city	text	No		Customer city
customer_contact	varchar(255)	No		Customer contact
customer_address	text	No		Customer address

customer_image	text	No		Customer image
customer_ip	varchar(255)	No		Customer Internet Protocol

Table: customer_order

Column Names	Data type	Null	Key	Note
order_id	int(10)	No	primary key	Order identification
customer_id	int(10)	No	foreign key	Customer identification
product_id	int(100)	No	foreign key	Product identification
due_amount	int(100)	No		Due amount
invoice_no	varchar(10)	No		Invoice number
qty	int(10)	No		Quantity
size	text	No		Size
order_date	timestamp	No		Order date
order_status	text	No		Order Status

Table: product_category

Column Names	Data type	Null	Key	Note
p_cat_id	int(10)	No	primary key	Product category identification
p_cat_title	text	No		Product category title
p_cat_desc	text	No		Product category description

Table: categories

Column Names	Data type	Null	Key	Note
cat_id	int(100)	No	primary key	Category Identificaotion
cat_title	text	No	foreign key	Category title
cat_desc	text	No		Category description

Table: products

Column Names	Data type	Null	Key	Note
product_id	int(10)	No	primary key	Product Identification
p_cat_id	int(10)	No	foreign key	Product category identification
cat_id	int(10)	No	foreign key	Category Identification
date	timestamp	No		Date
product_title	text	No		Product title
product_img1	text	No		Product Image 1
product_img2	text	No		Product Image 2
product_img3	text	No		Product Image 3
product_price	int(10)	No		Product price
product_desc	text	No		Product description
product_desc1	text	No		Product description 1
product_keywords	text	No		Product keywords

Table: payments

Column Names	Data type	Null	Key	Note
payment_id	int(100)	No	primary key	Payment identification
invoice_id	int(100)	No		Invoice Identification
amount	int(100)	No		Amount
payment mode	text	No		Payment mode
ref_no	int(100)	No		Reference No
payment_date	text	No		Payment date

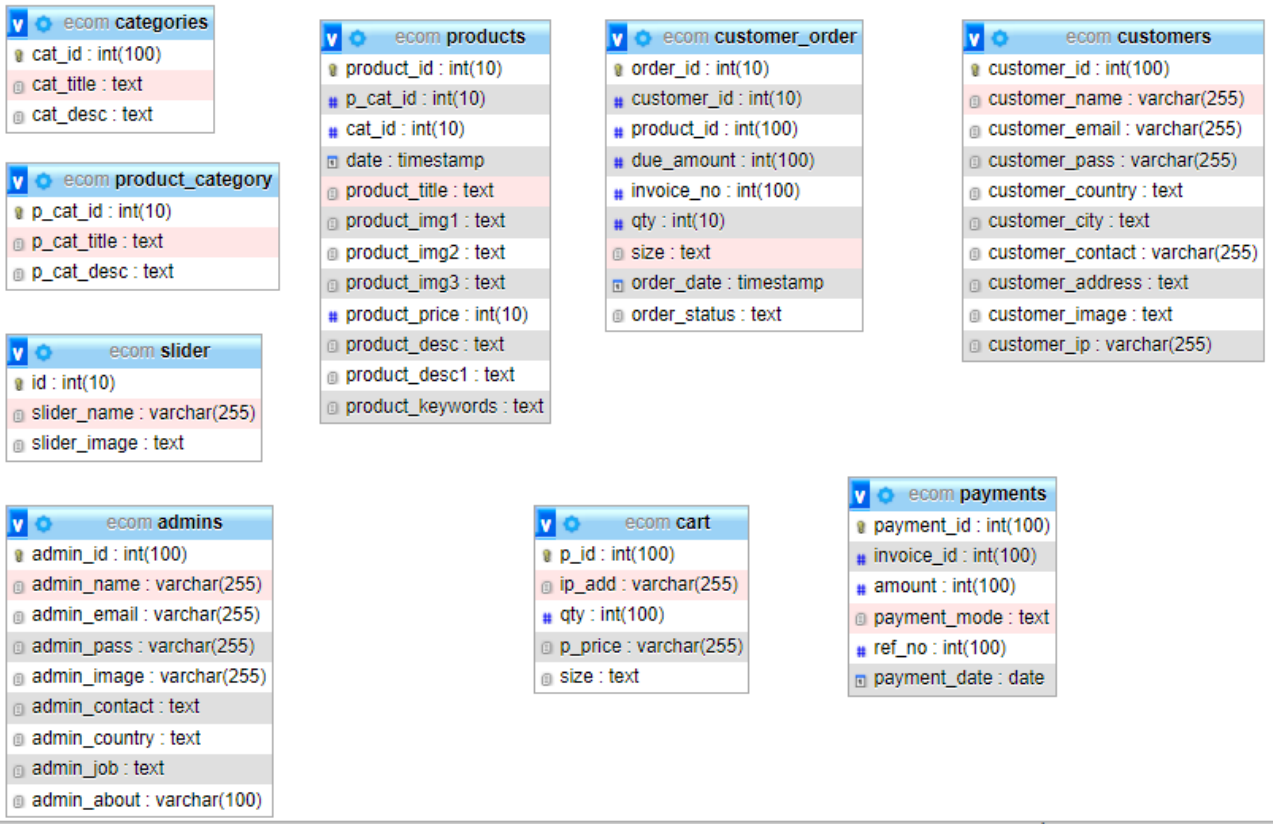
Table: slider

Column Names	Data type	Null	Key	Note
id	int(10)	No	primary key	Identification
slider_name	varchar(255)	No		Slider name
slider_image	text	No		Slider image

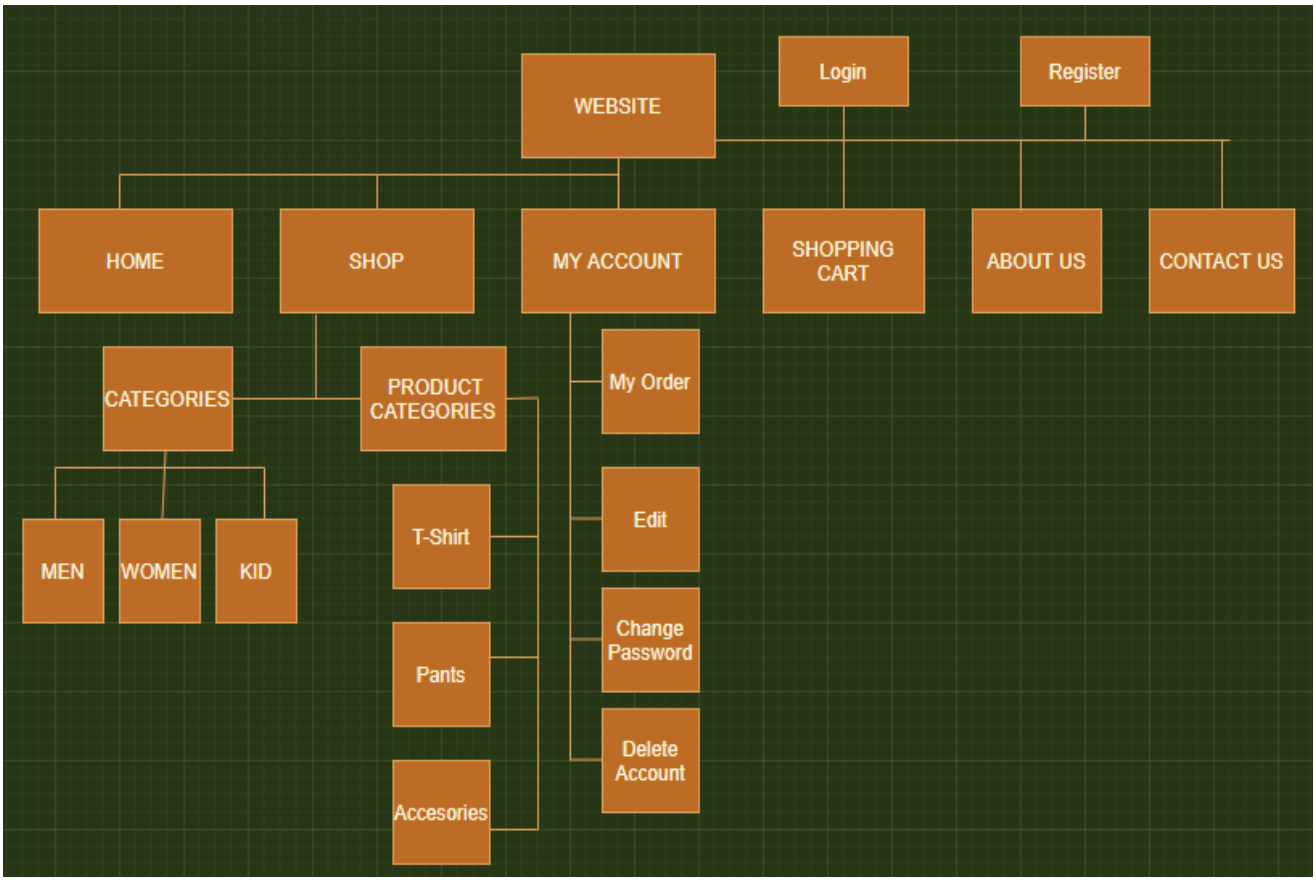
Table: cart

Column Names	Data type	Null	Key	Note
p_id	int(100)	No	primary key	Product identification
ip_add	varchar(255)	No		IP add
qty	int(100)	No		Quantity
size	text	No		Size
p_price	varchar(255)	No		Product price

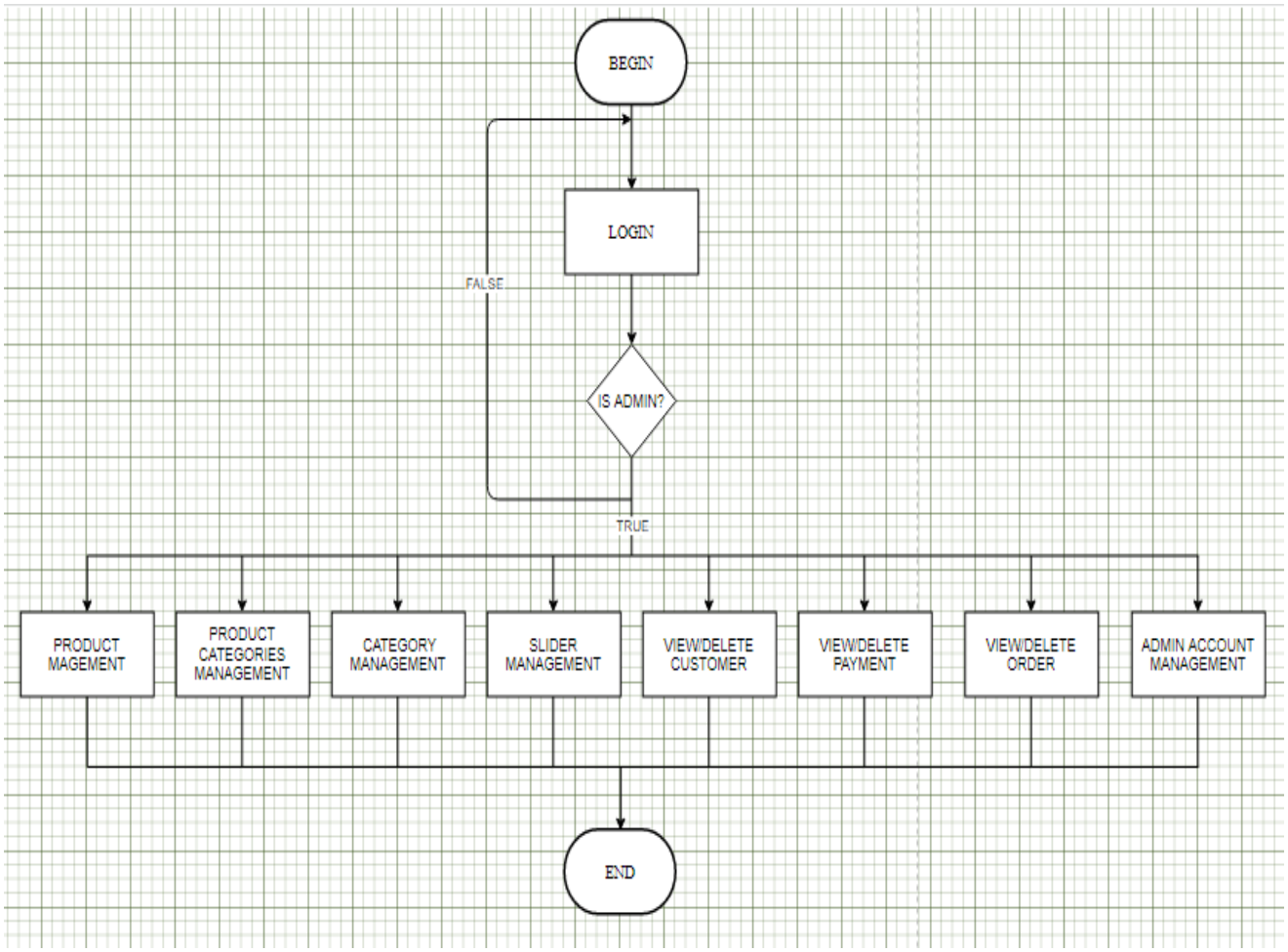
B. Relationship Diagram



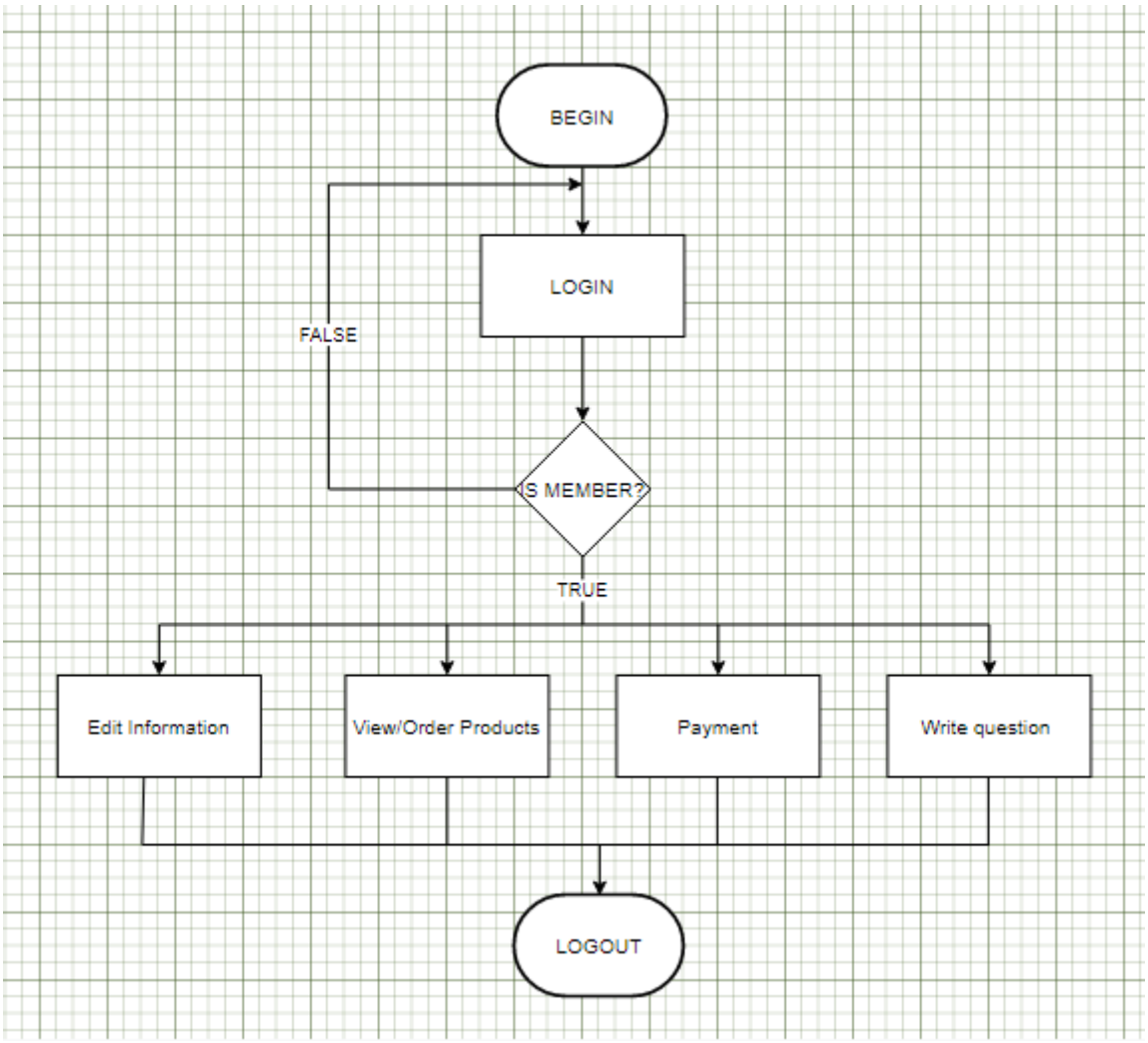
SiteMap


WEBSITE
Login
Register
HOME
SHOP
MY ACCOUNT
SHOPPING CART
ABOUT US
CONTACT US
CATEGORIES
PRODUCT CATEGORIES
My Order
MEN
WOMEN
KID
T-Shirt
Edit
Change Password
Pants
Delete Account
Accesories

Admin:


BEGIN
LOGIN
FALSE
IS ADMIN?
TRUE
PRODUCT MAGEMENT
PRODUCT CATEGORIES MANAGEMENT
CATEGORY MANAGEMENT
SLIDER MANAGEMENT
VIEW/DELETE CUSTOMER
VIEW/DELETE PAYMENT
VIEW/DELETE ORDER
ADMIN ACCOUNT MANAGEMENT
END

USER:


BEGIN
LOGIN
FALSE
IS MEMBER?
TRUE
Edit Information
View/Order Products
Payment
Write question
LOGOUT

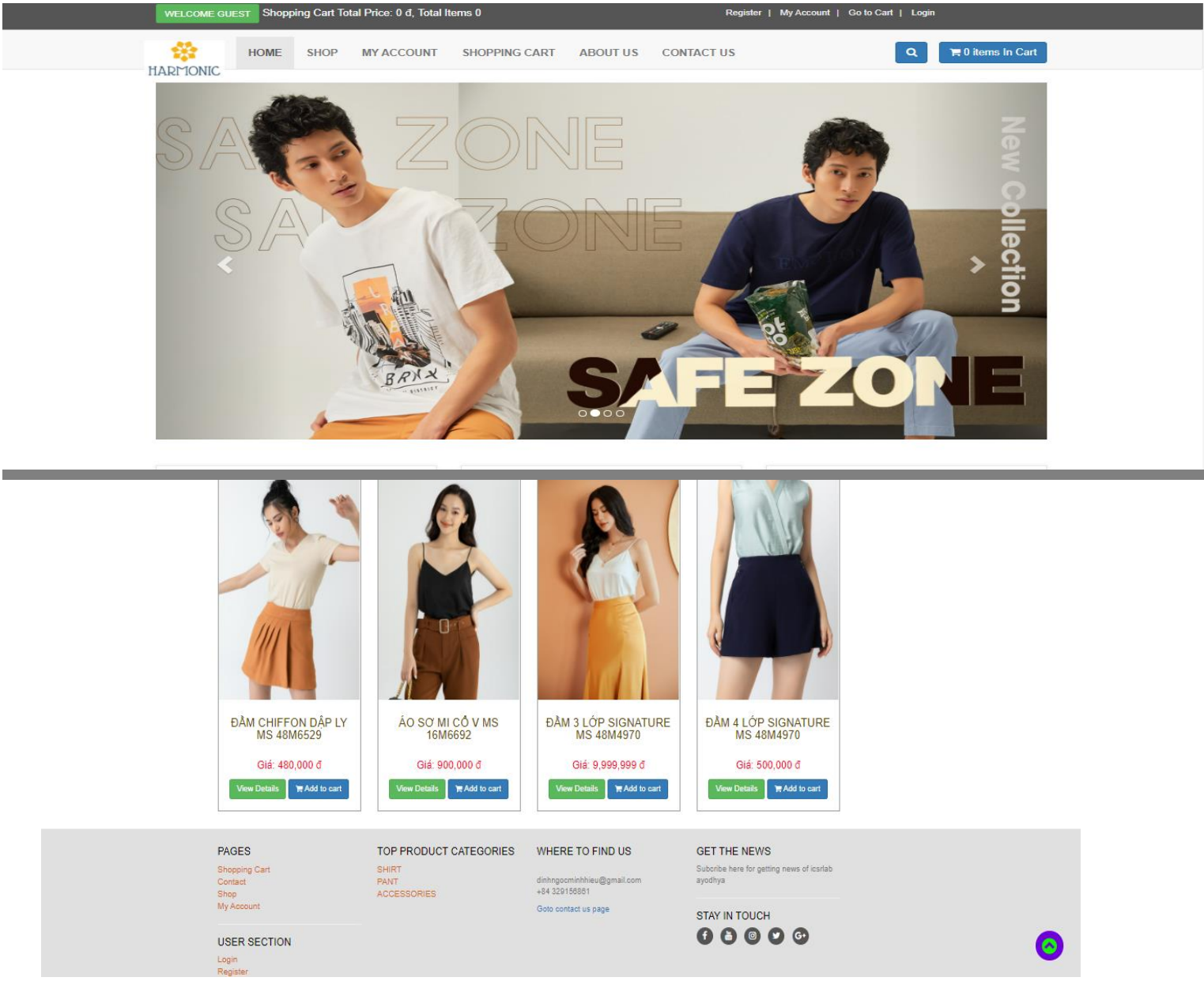
No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planed Start Date	Actual Start Date	Actual Days	Status
1	**ĐinhNgọc Minh Hiếu**	Admin	View Product	PRODUCT	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Product		10/5/2021	10/25/2021	21	
		Customer	View Product		10/5/2021	10/25/2021	21	
			View Detail Product		10/5/2021	10/25/2021	21	
			Add Proudct		10/5/2021	10/25/2021	21	
		Admin	N/A	CART	N/A	N/A	N/A	
		Customer	View Product in Cart		10/5/2021	10/25/2021	21	
2	**Nguyễn Trần Hoàng Phúc**	Admin	View/Delete Customer	CUSTOMER	10/5/2021	10/25/2021	21	
		Customer	Login/Register		10/5/2021	10/25/2021	21	
			Edit Profile / Change Password		10/5/2021	10/25/2021	21	
			Delete Acount		10/5/2021	10/25/2021	21	
		Admin	View Product Categories	PRODUCT CATEGORIES	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Product Categories		10/5/2021	10/25/2021	21	
		Customer	View Categories product		10/5/2021	10/25/2021	21	
3	**Văn Khánh Phát**	Admin	View/Delete Customer Order	CUSTOMER ORDER	10/5/2021	10/25/2021	21	
		Customer	Making order		10/5/2021	10/25/2021	21 21	
		Admin	View Slide	SLIDER	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Slider		10/5/2021	10/25/2021	21	
		Customer	View Slider		10/5/2021	10/25/2021	21	
4	**Phạm Trần Hoàng Anh**	Admin	View/Insert/Edit/Delete Admin Acount	ADMINS	10/5/2021	10/25/2021	21	
		Admin	View Categories	CATEGORIES	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Product Categories		10/5/2021	10/25/2021	21	
		Customer	View Categories		10/5/2021	10/25/2021	21	
		Admin	View payment/ Delete Payment	PAYMENT	10/5/2021	10/25/2021	21	
		Customer	Confirm if payemnt		10/5/2021	10/25/2021	21	

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

REVIEW 03

I.**Homepage:**

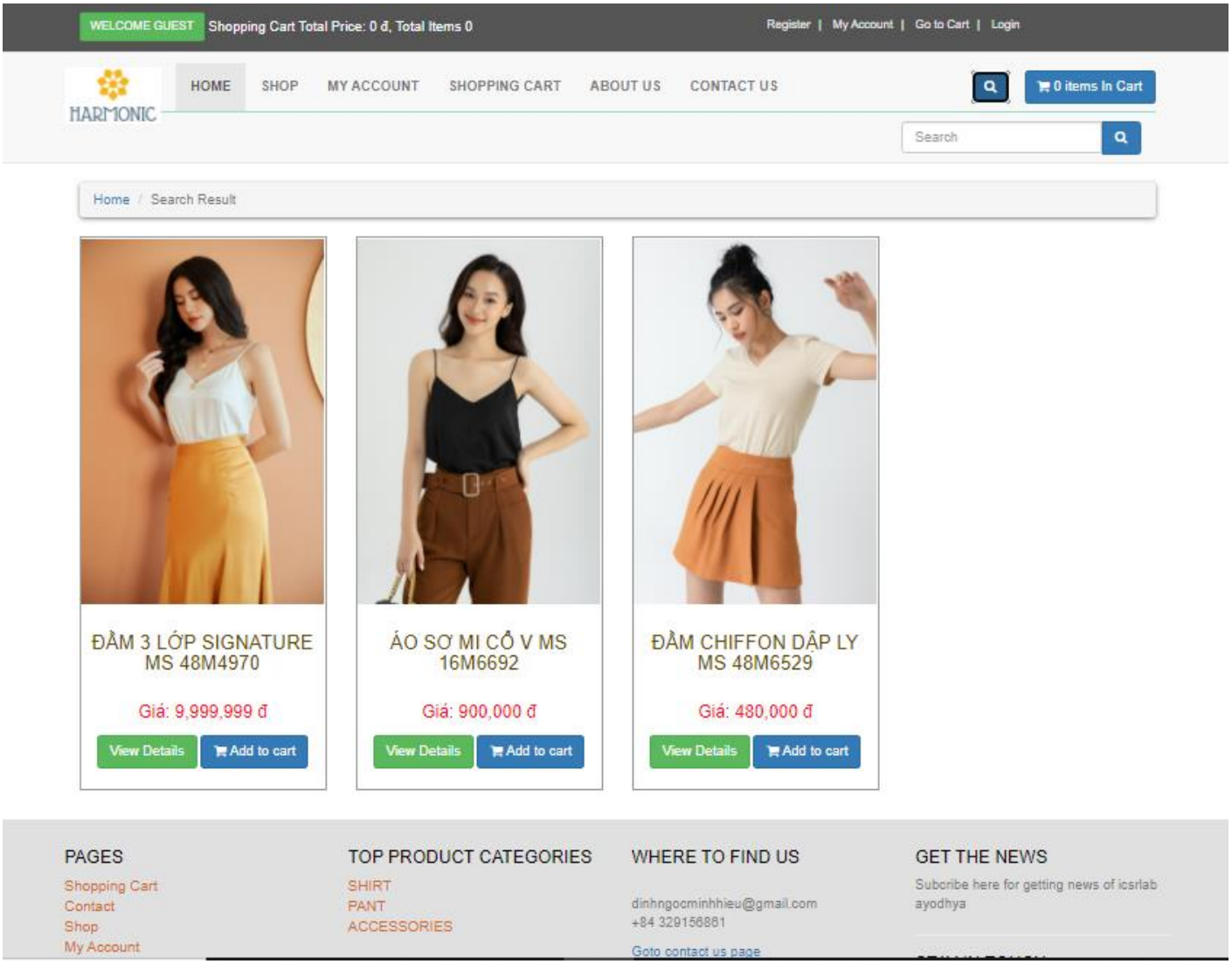
I.i:Index



Description	HomePage
From	N/A
To	Shop, My Account,Contact Us, About Us, Admin page
Event	Navigate the site by clicking menus or products.

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

II.Search+ Search Reseult

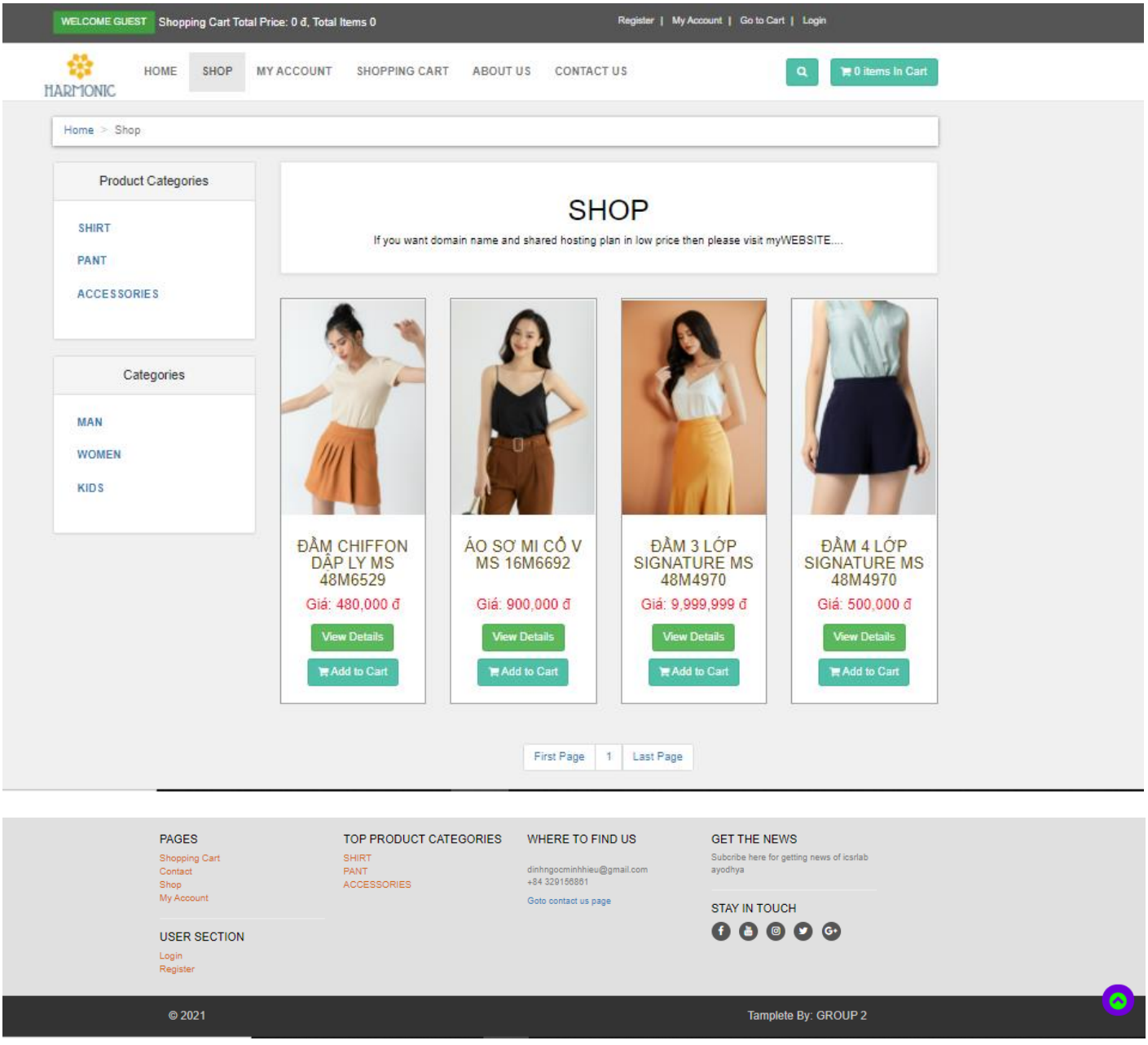


Description	SEARCH
From	Home Page
To	Serach Box
Event	When the magnifying glass icon is clicked, a card input will appear to the guest row enter the key from to find, after enter the press from the key Enter or click on the magnifying glass at the top at the bottom of the tag, product name same with the key from will be current.

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

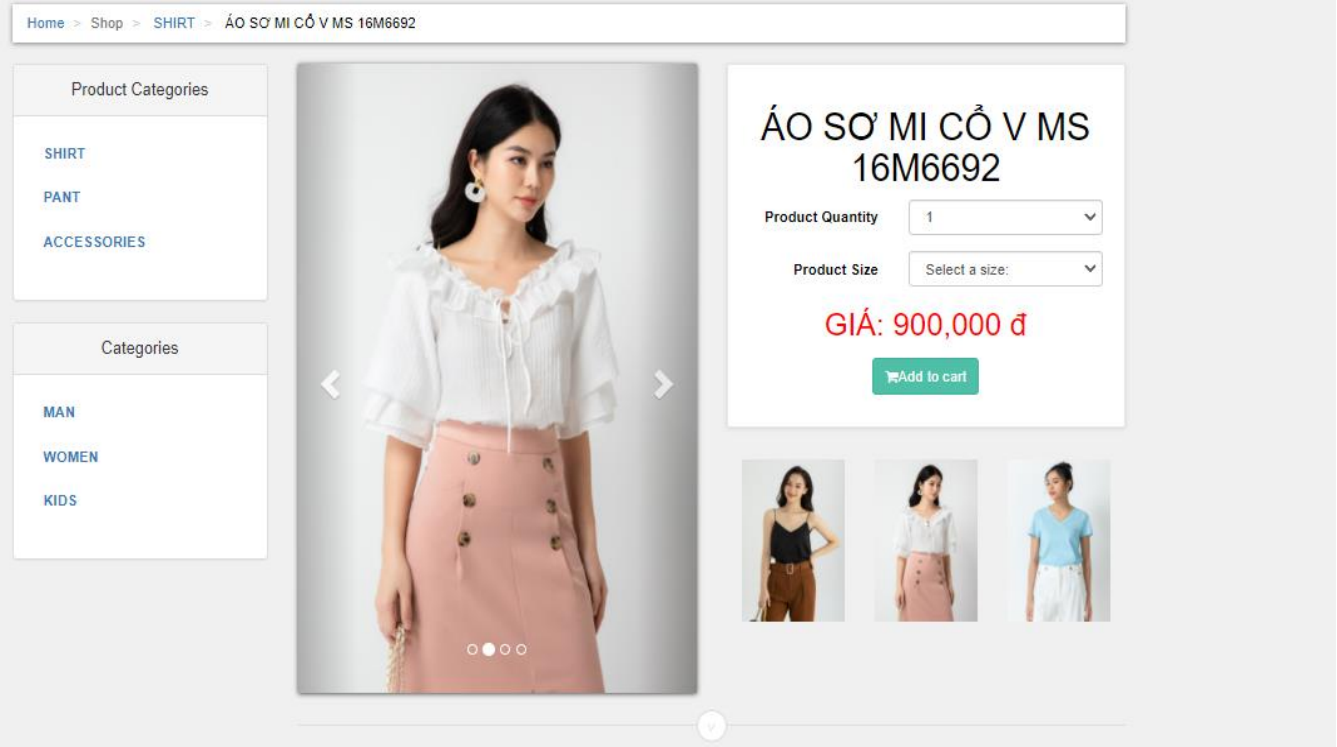
III Shop:

III.i Product

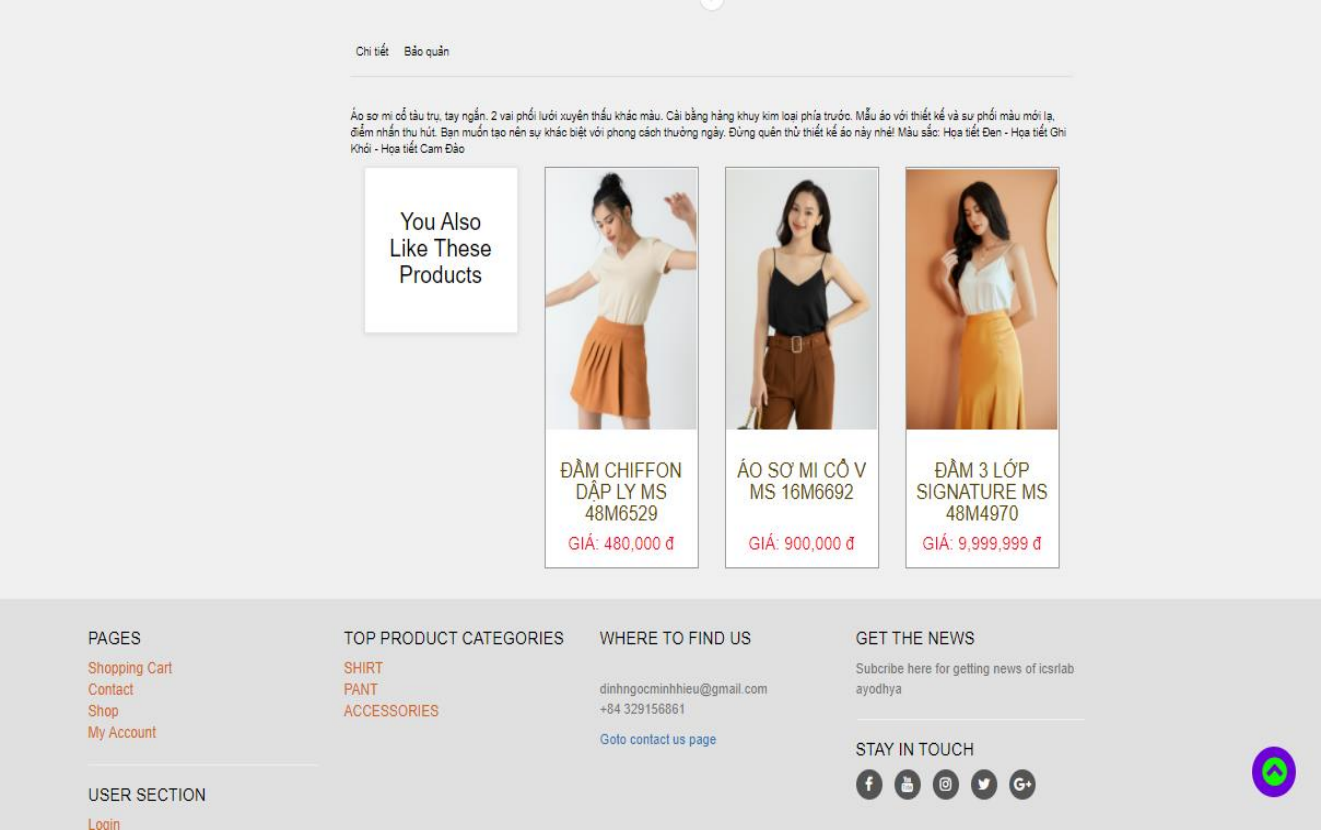


	Prepared by (Student)	Approved by (Faculty)
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

III.ii Product Detail



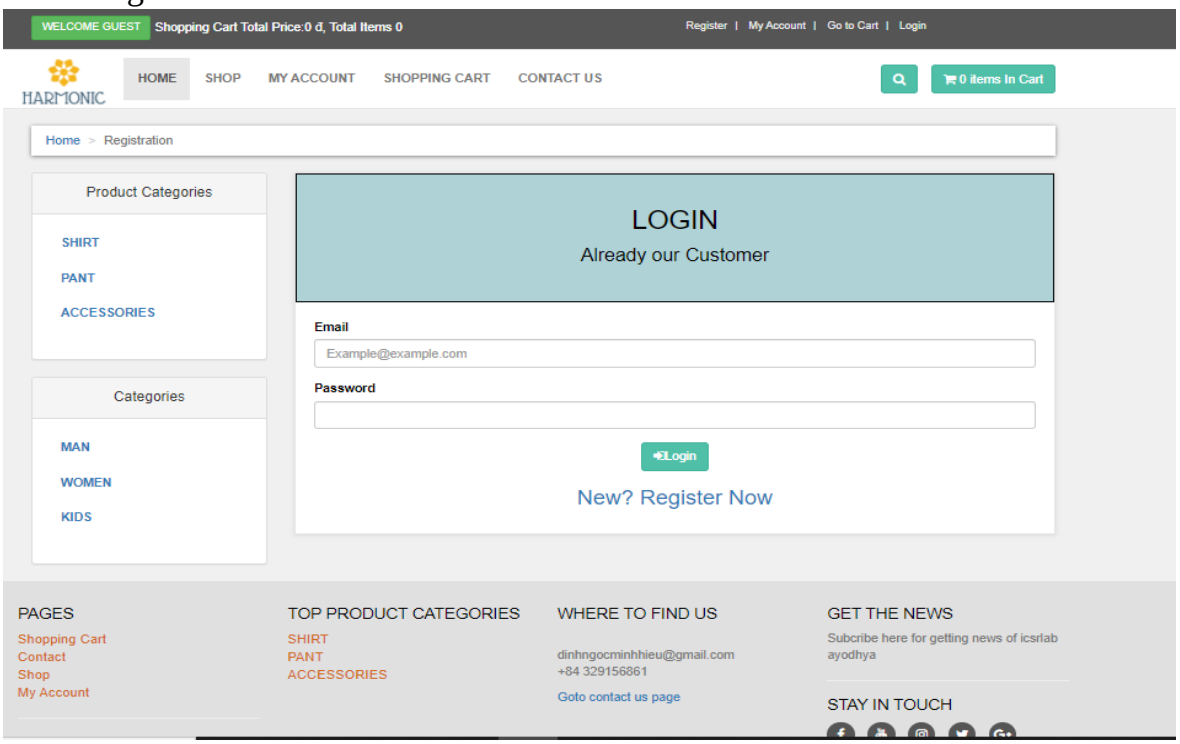
III.iii Description and You like these Products



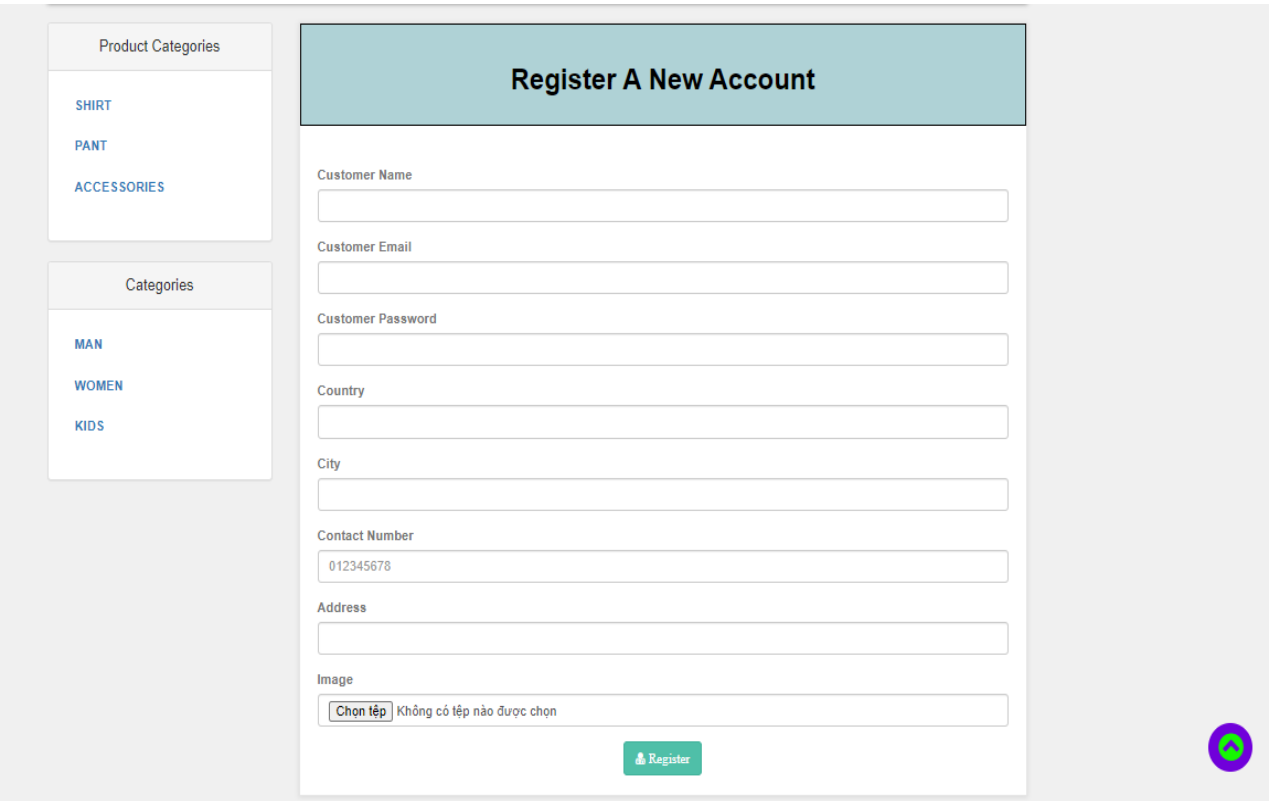
Description	Product and Product detail
From	Home Page
To	Shop page
Event	Customers can view products by category, view details, search by product name.

IV MY ACCOUNT PAGE

IV.i Login

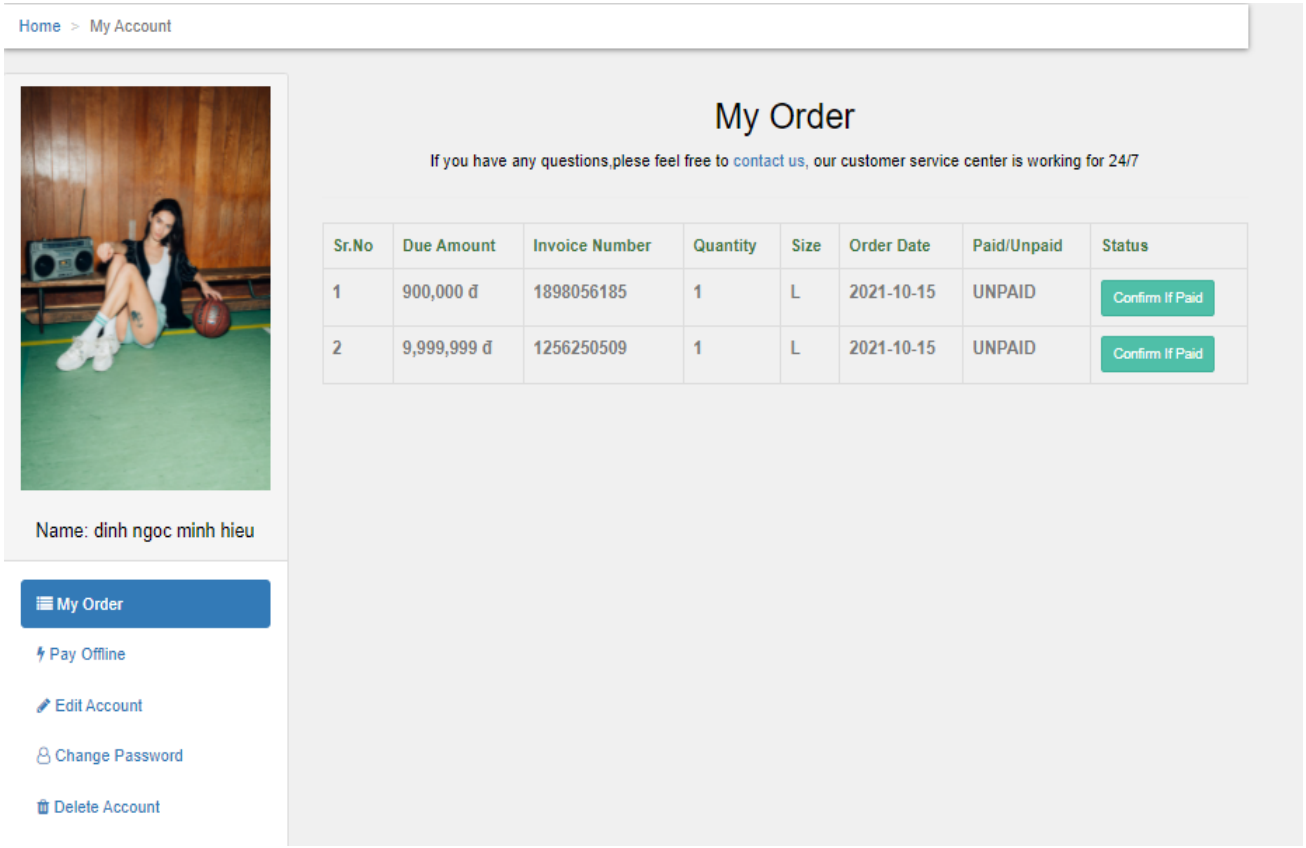


IV.ii Register

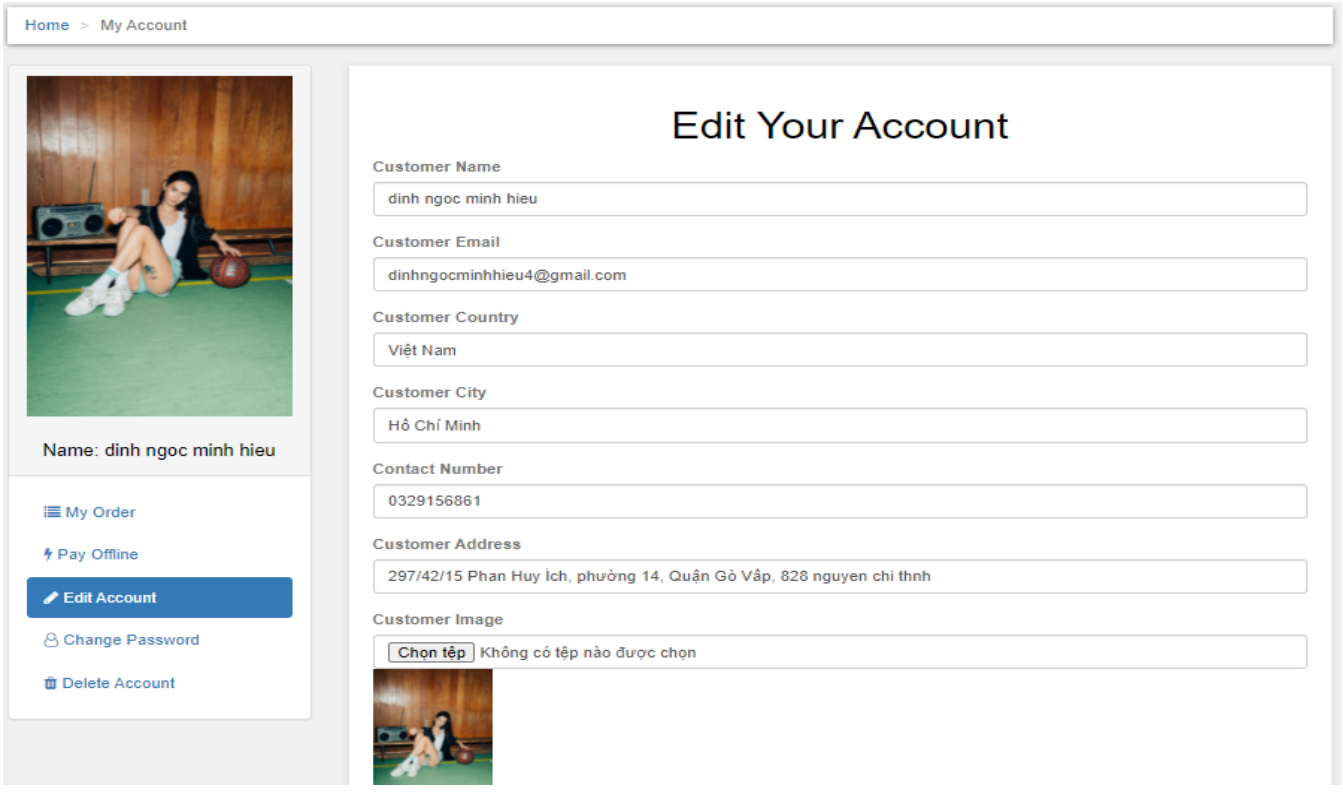


Description	Login and Register
From	HomePage
To	My Account Page
Event	If not logged in – customers need to do log in: All cells cannot be empty: - Account must match the required format gmail -Password must be at least 8 characters and must contain at least 1 number and 1 capital letter - The account and password must be correct with the database When clicking the Login button, if the account and password match the database the page will go to My Account page If not registered - customers need to register: -The cells cannot be left blank and must be in the correct format of the form -When clicking the register button, if the requirements are correct, an account will be established and a notification will be displayed to the customer that an account has been successfully created. At the same time, the account will automatically log in to the customer without having to log in again.

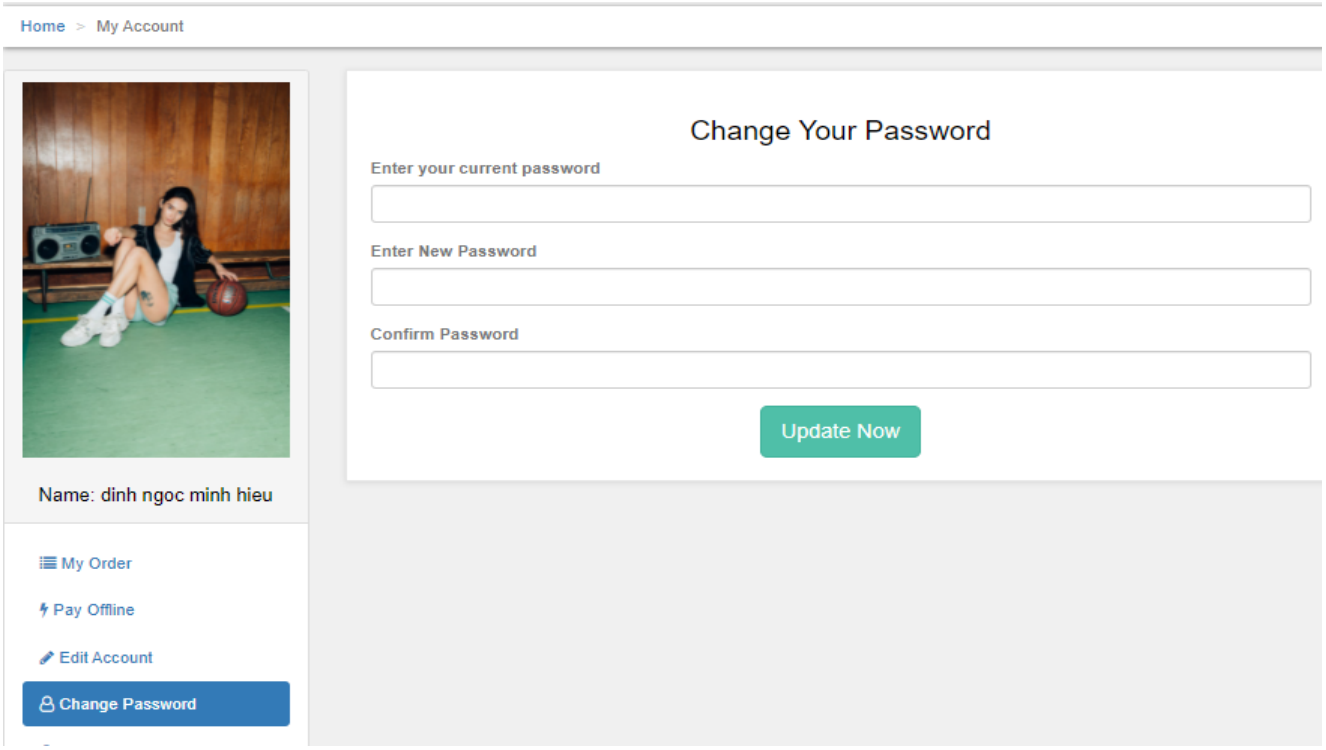
IV.iii My Account-My Order



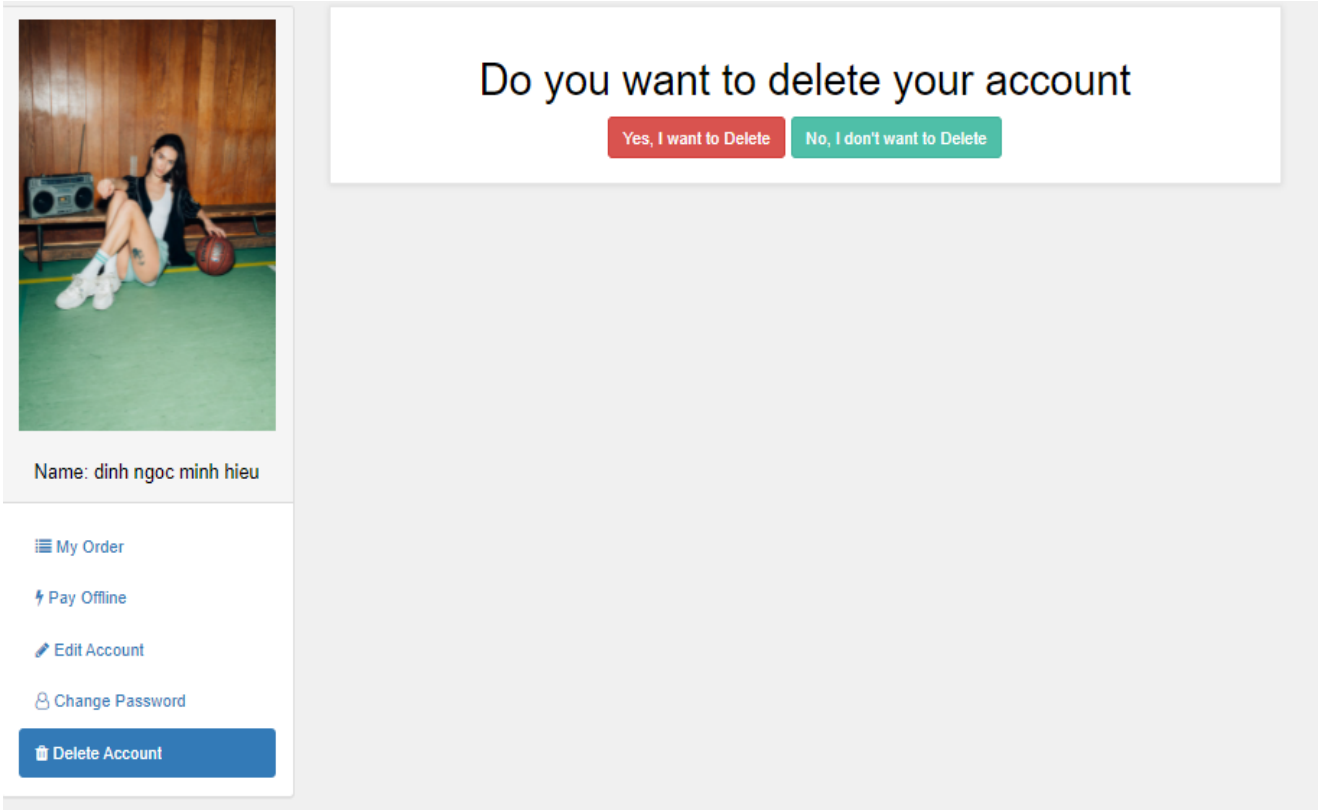
IV.iv My Account – Edit Account



IV.v My Account- Change Password

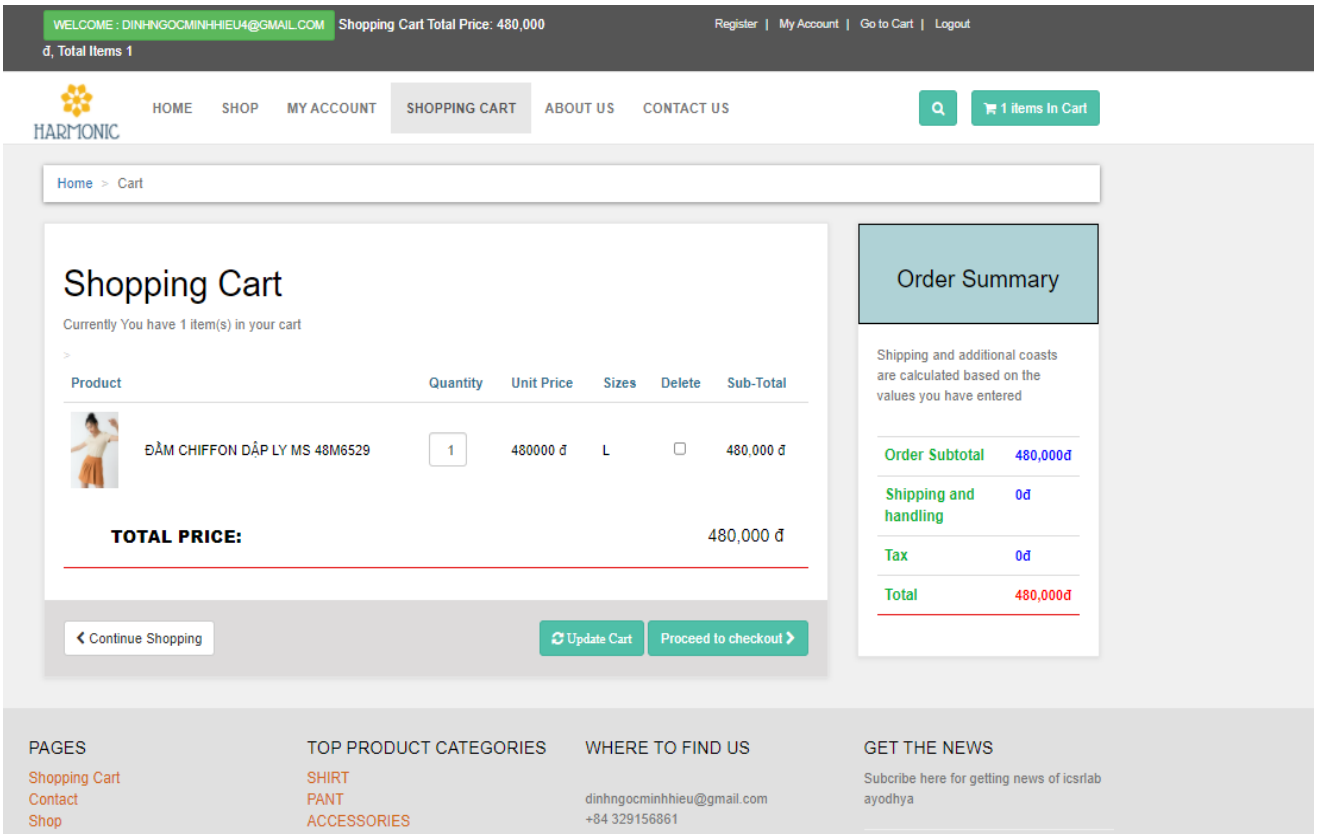


IV.vi My Account- Delete Account

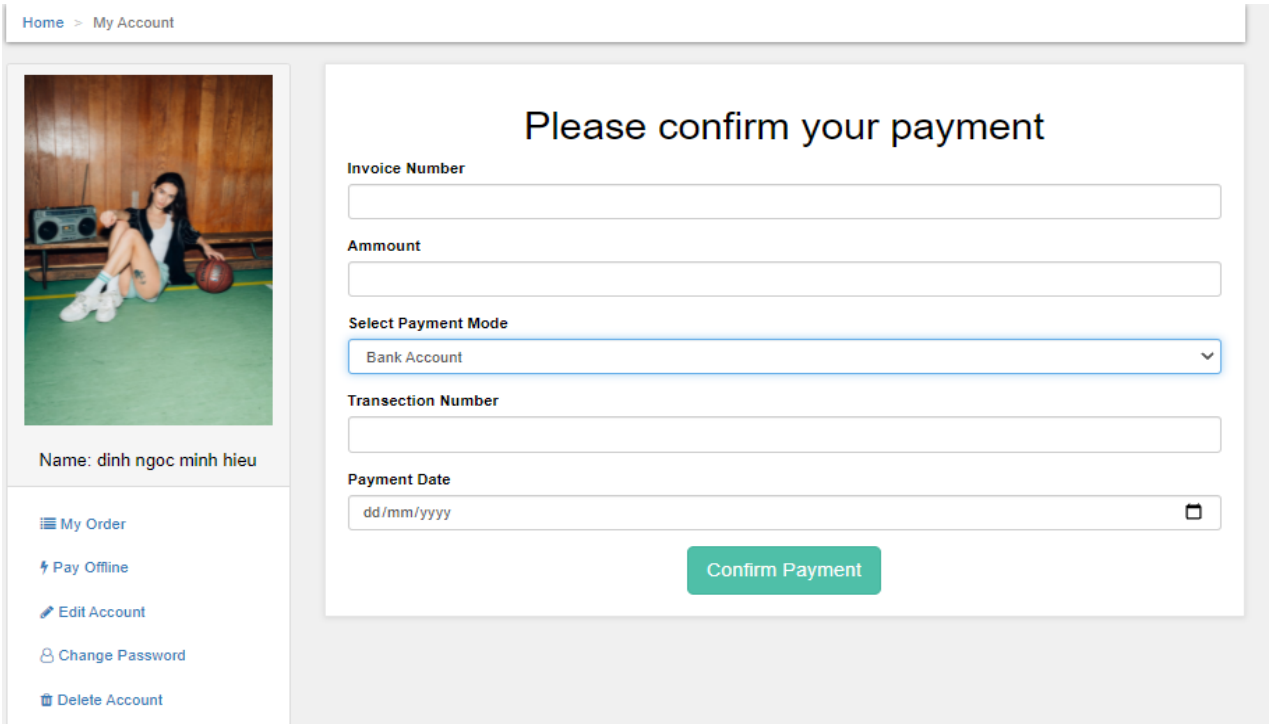


Description	My Account Page details
From	HomePage
To	My Account Page
Event	Customers can change their personal information, change their passwords, view the list of ordered products and make payments.

V SHOPPING CART PAGE

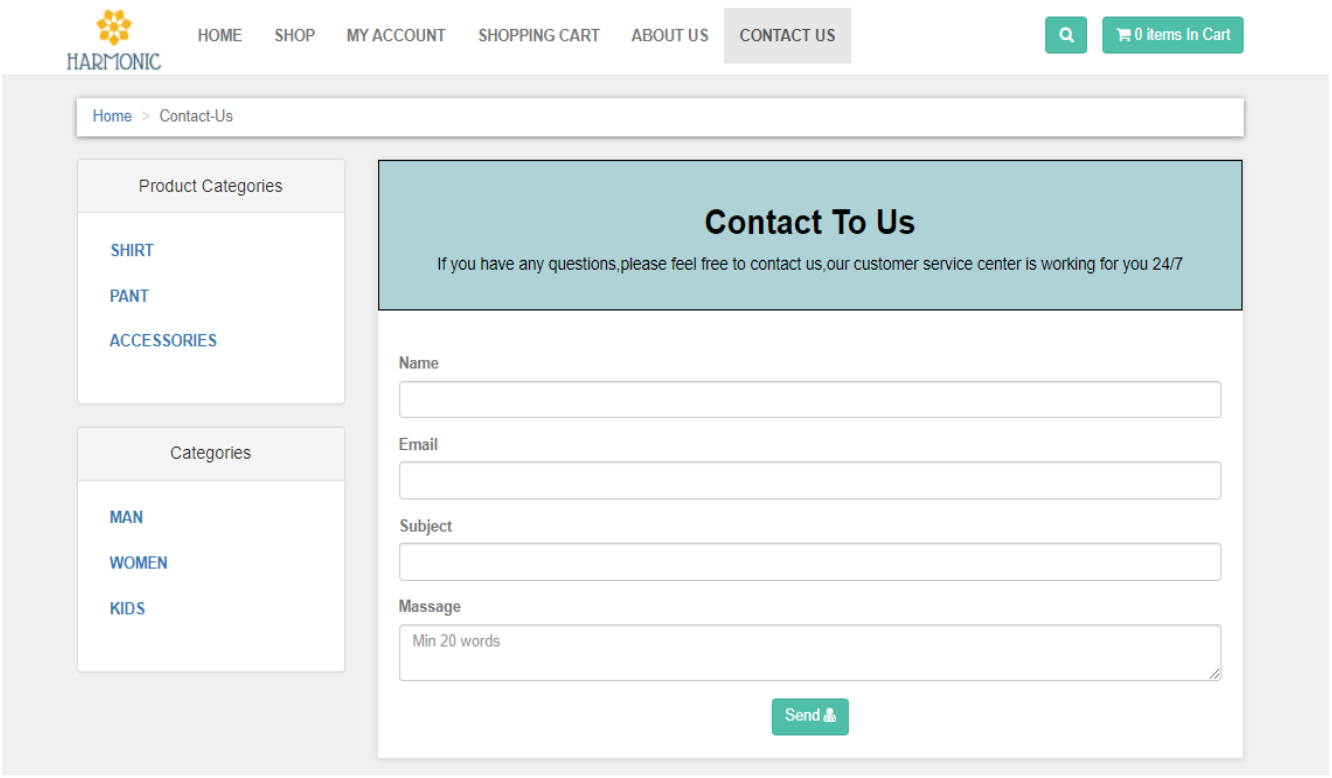


V.i Confirm if payment



Description	Shopping Cart
From	Home Page
To	Shopping Cart Page
Event	The Shopping Cartrt page allows customers to finish their current order. If they don't want to, they can click on the button "Continue shopping", which will link back to the menu page. The information about food items ordered by the customers is displayed on the left side, while the order details is presented on the right side. Add/remove products from cart.

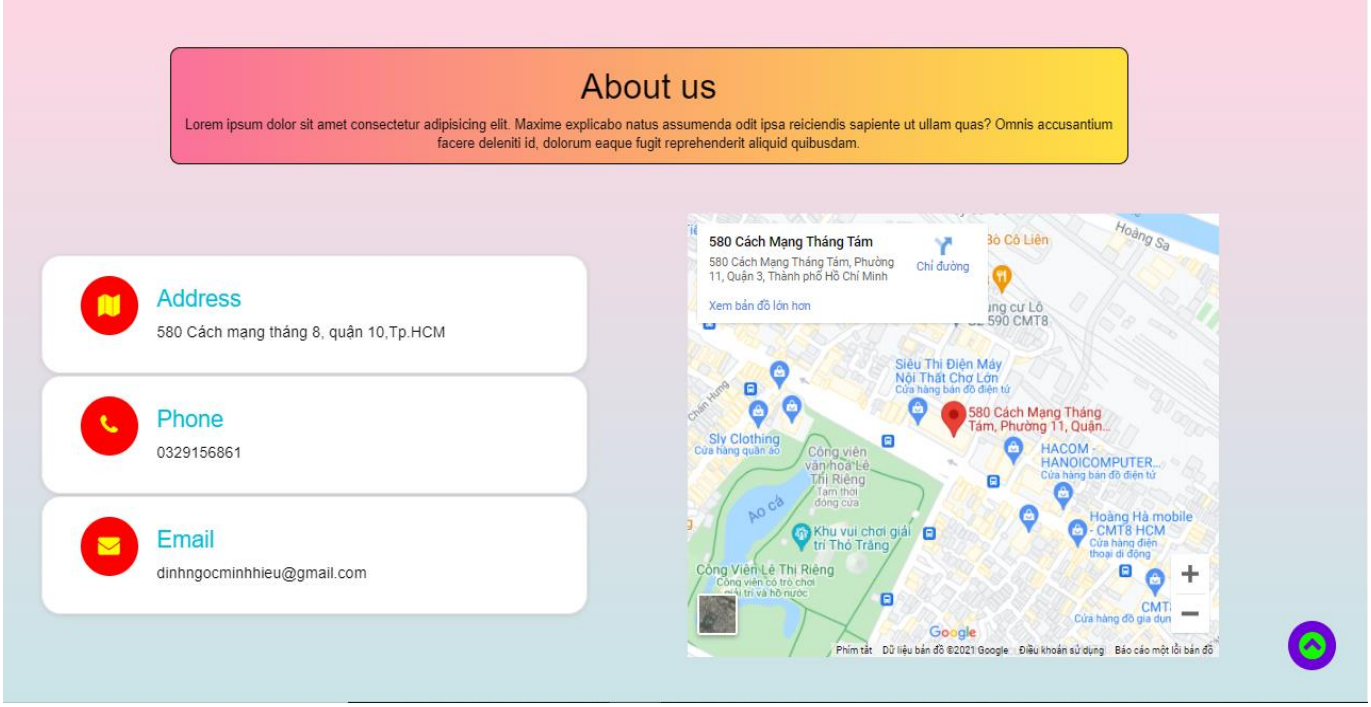
VI CONTACT US PAGE



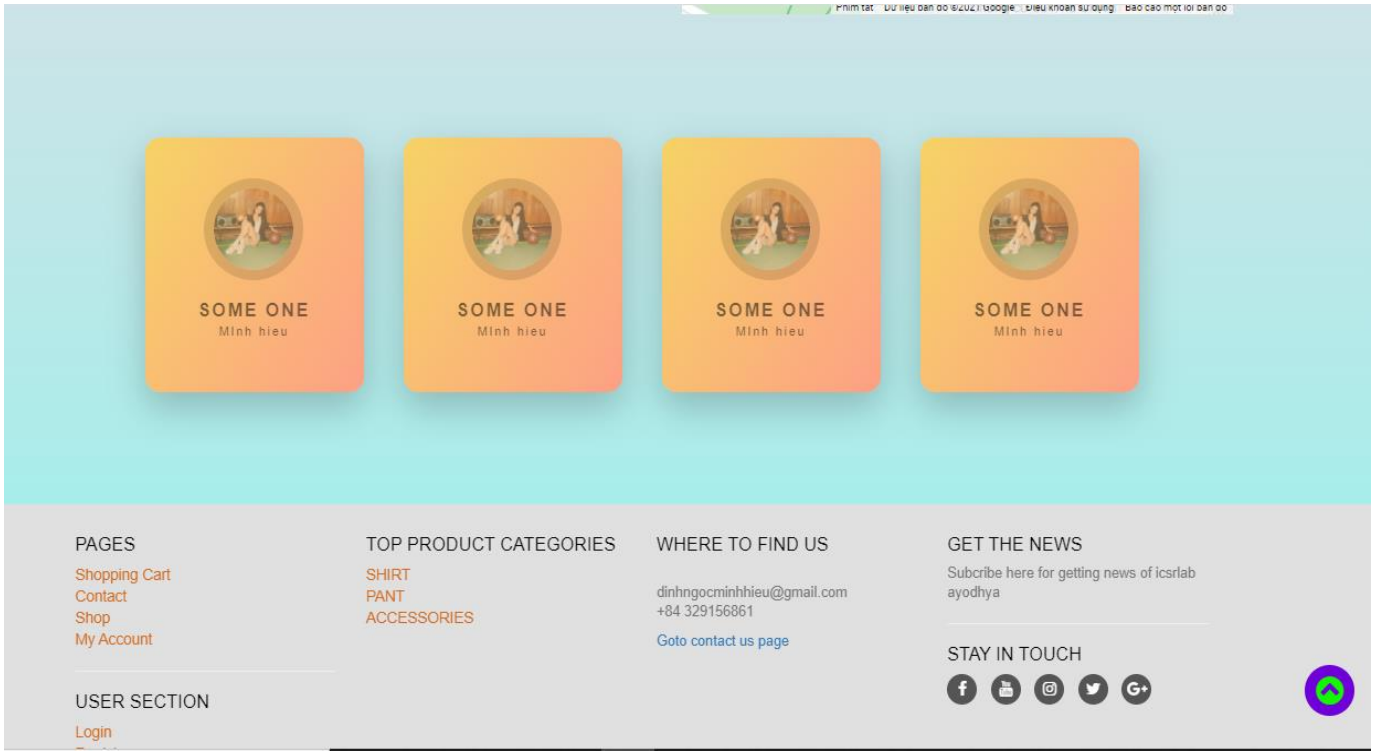
Description	Contact Us
From	Home Page
To	Contact Us Page
Event	customer can send feedback to admin through form

VII: About Us Page

VII.i Description, Address, Map



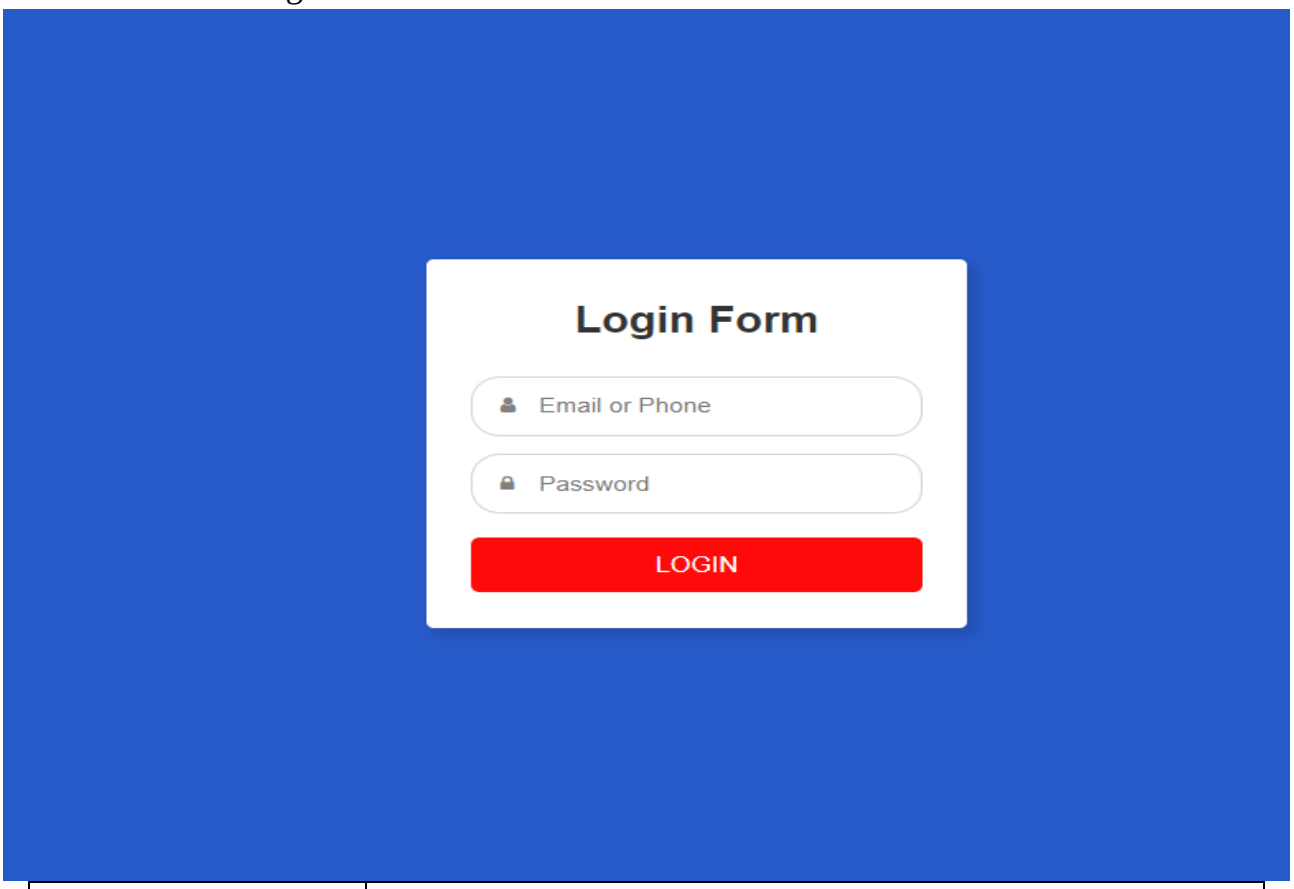
VII.ii Member



Description	About Us
From	Home Page
To	About Us Page
Event	Show all information about the business including including phone number 1, phone number 2, business address correct business name, email, and address on Google Map. Show typical members who created the site.

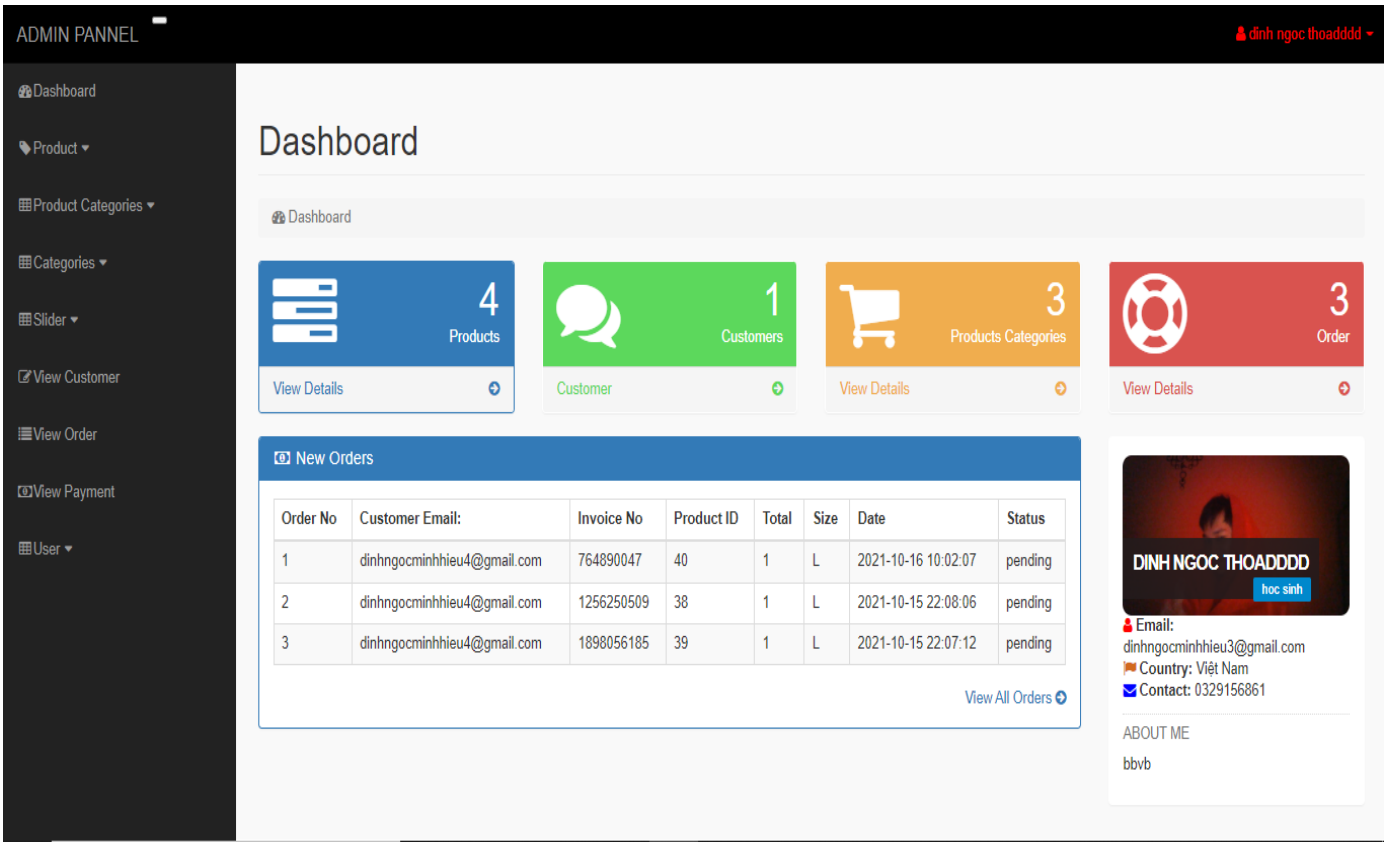
VIII ADMIN PAGE

VIII.i Admin Login



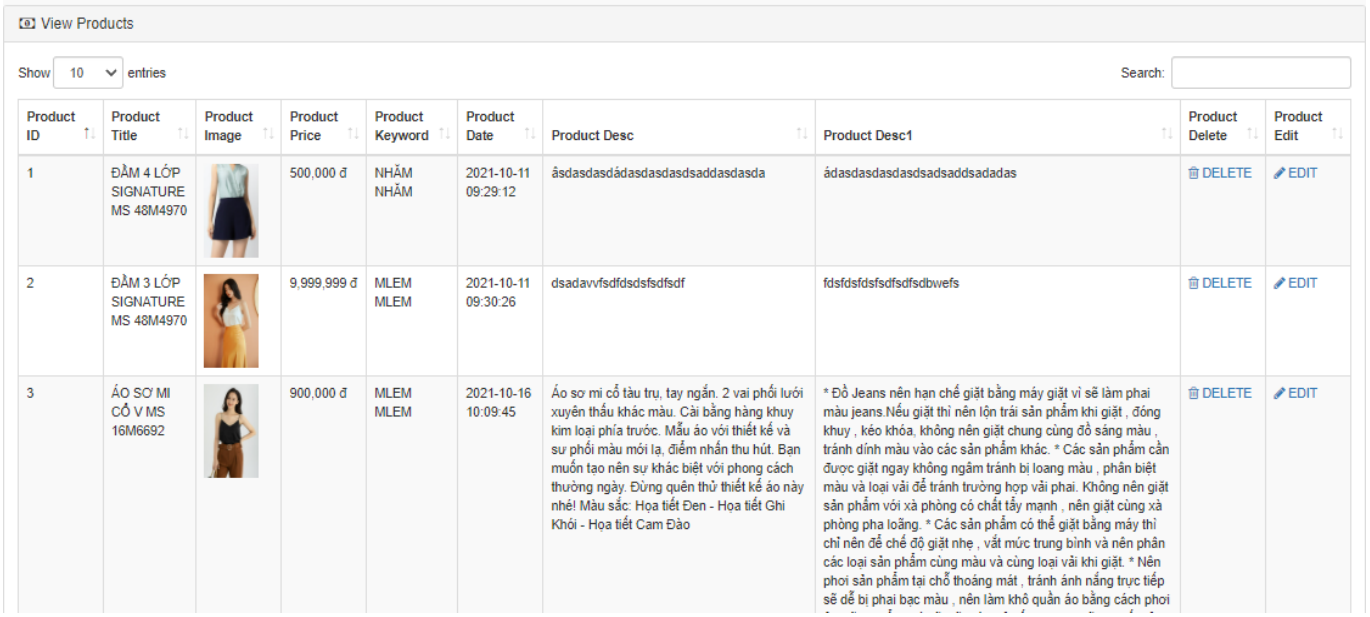
Description	Login Admin
From	N/A
To	Login Admin Page
Event	If not logged in – Admin needs to do log in: All cells cannot be empty: - The account must be in the correct format required for gmail - Password must be at least 8 characters with at least 1 uppercase letter and 1 number - The account and password must be correct with the database -When clicking the Login button, if the account and password correct with the database, the page will go to the Administration page Treatment

VIII.ii.Dashboard(Admin HomePage)



Description	HomePage Admin
From	Admin Page/ Login Admin Page
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	Admin can INSERT/VIEW/UPDATE/DELETE

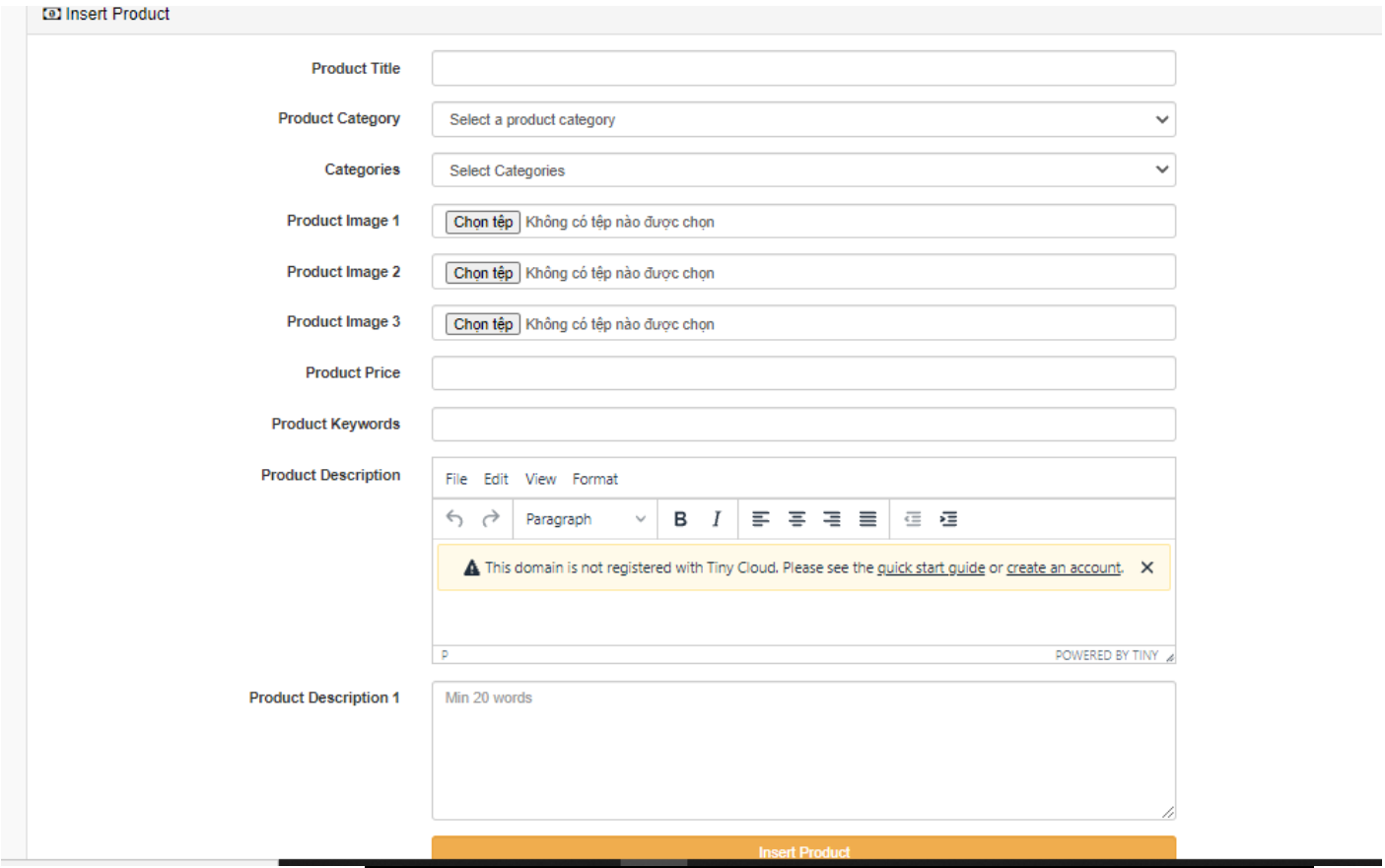
VIII.iii Insert + View Product



View Products

Show 10 entries Search:

Product ID	Product Title	Product Image	Product Price	Product Keyword	Product Date	Product Desc	Product Desc1	Product Delete	Product Edit
1	ĐẦM 4 LỚP SIGNATURE MS 48M4970		500,000 đ	NHĂM NHĂM	2021-10-11 09:29:12	âsdasdasdádasdasdasdsaddasdasda	ádasdasdasdasdsadsaddsadadas	DELETE	EDIT
2	ĐẦM 3 LỚP SIGNATURE MS 48M4970		9,999,999 đ	MLEM MLEM	2021-10-11 09:30:26	dsadavvfsdfdsdsfsdfsdf	fdsfdsfdsfsdfsdfsdbwefs	DELETE	EDIT
3	ÁO SƠ MI CỔ V MS 16M6692		900,000 đ	MLEM MLEM	2021-10-16 10:09:45	Áo sơ mi cổ tàu trụ, tay ngắn. 2 vai phối lưới xuyên thấu khác màu. Cài bằng hàng khuy kim loại phía trước. Mẫu áo với thiết kế và sự phối màu mới lạ, điểm nhấn thu hút. Bạn muốn tạo nên sự khác biệt với phong cách thường ngày. Đừng quên thử thiết kế áo này nhé! Màu sắc: Họa tiết Đen - Họa tiết Ghi Khói - Họa tiết Cam Đào	* Đồ Jeans nên hạn chế giặt bằng máy giặt vì sẽ làm phai màu jeans.Nếu giặt thì nên lộn trái sản phẩm khi giặt , đóng khuy , kéo khóa, không nên giặt chung cùng đồ sáng màu , tránh dính màu vào các sản phẩm khác. * Các sản phẩm cần được giặt ngay không ngâm tránh bị loang màu , phân biệt màu và loại vải để tránh trường hợp vải phai. Không nên giặt sản phẩm với xà phòng có chất tẩy mạnh , nên giặt cùng xà phòng pha loãng. * Các sản phẩm có thể giặt bằng máy thì chỉ nên để chế độ giặt nhẹ , vắt mức trung bình và nên phân các loại sản phẩm cùng màu và cùng loại vải khi giặt. * Nên phơi sản phẩm tại chỗ thoáng mát , tránh ánh nắng trực tiếp sẽ dễ bị phai bạc màu , nên làm khô quần áo bằng cách phơi	DELETE	EDIT



Insert Product

Product Title

Product Category — Select a product category

Categories — Select Categories

Product Image 1 — Chọn tệp Không có tệp nào được chọn

Product Image 2 — Chọn tệp Không có tệp nào được chọn

Product Image 3 — Chọn tệp Không có tệp nào được chọn

Product Price

Product Keywords

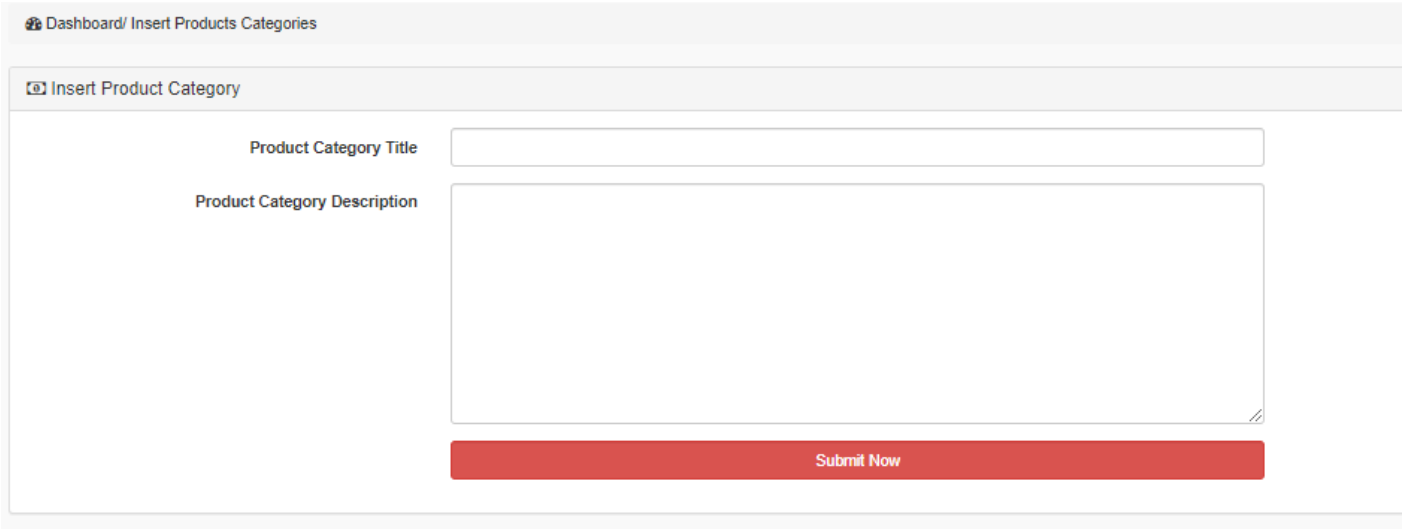
Product Description — File Edit View Format; Paragraph; This domain is not registered with Tiny Cloud. Please see the quick start guide or create an account.; POWERED BY TINY

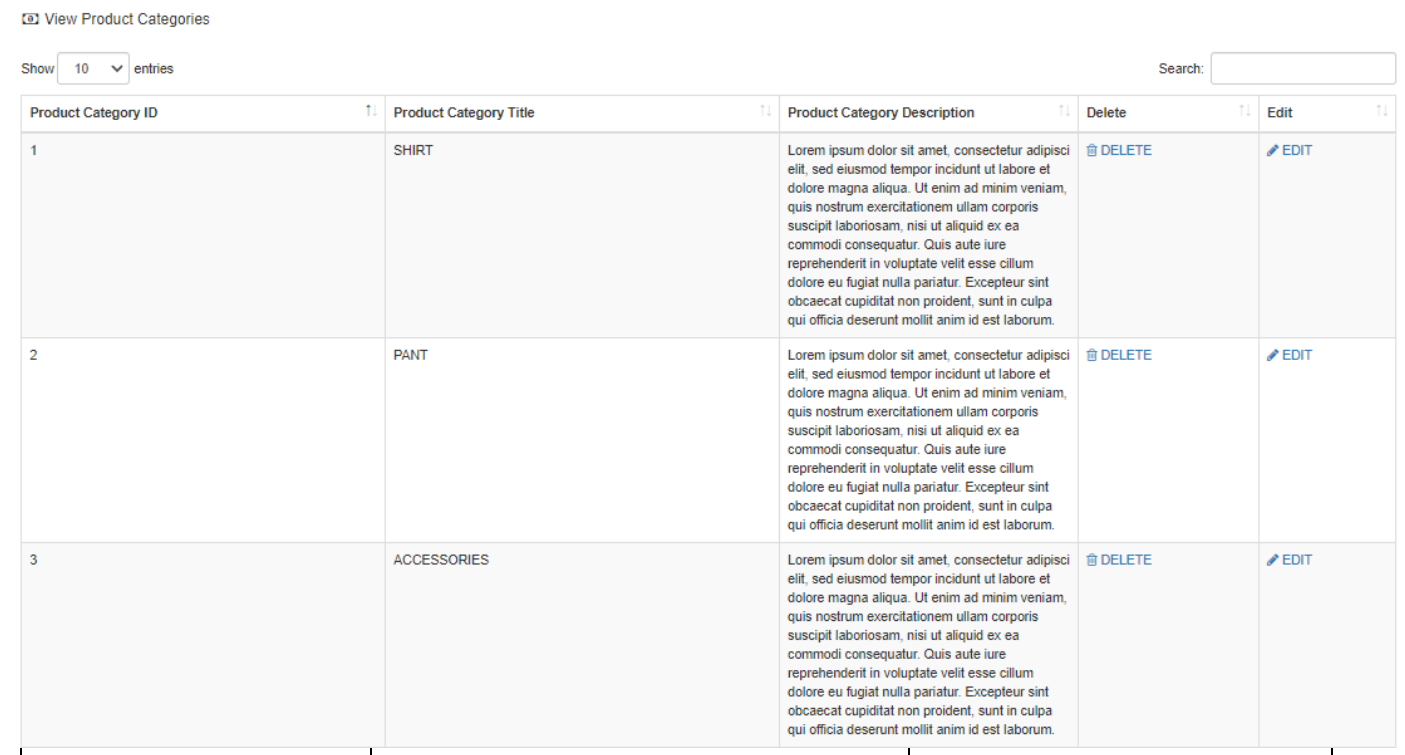
Product Description 1 — Min 20 words

Insert Product

Description	Product Management
From	ADMIN PAGE
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	Admins can add products, view product updates, and delete products. When adding, you must comply with the requirements of the form

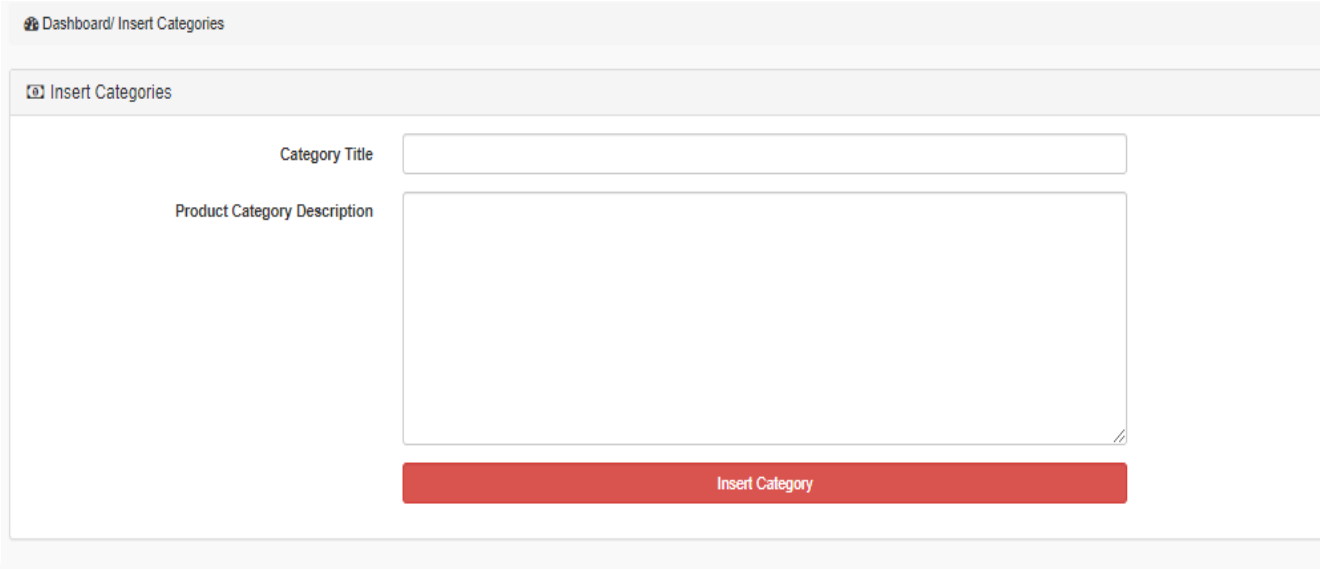
VIII.iv Insert + View Product Categories

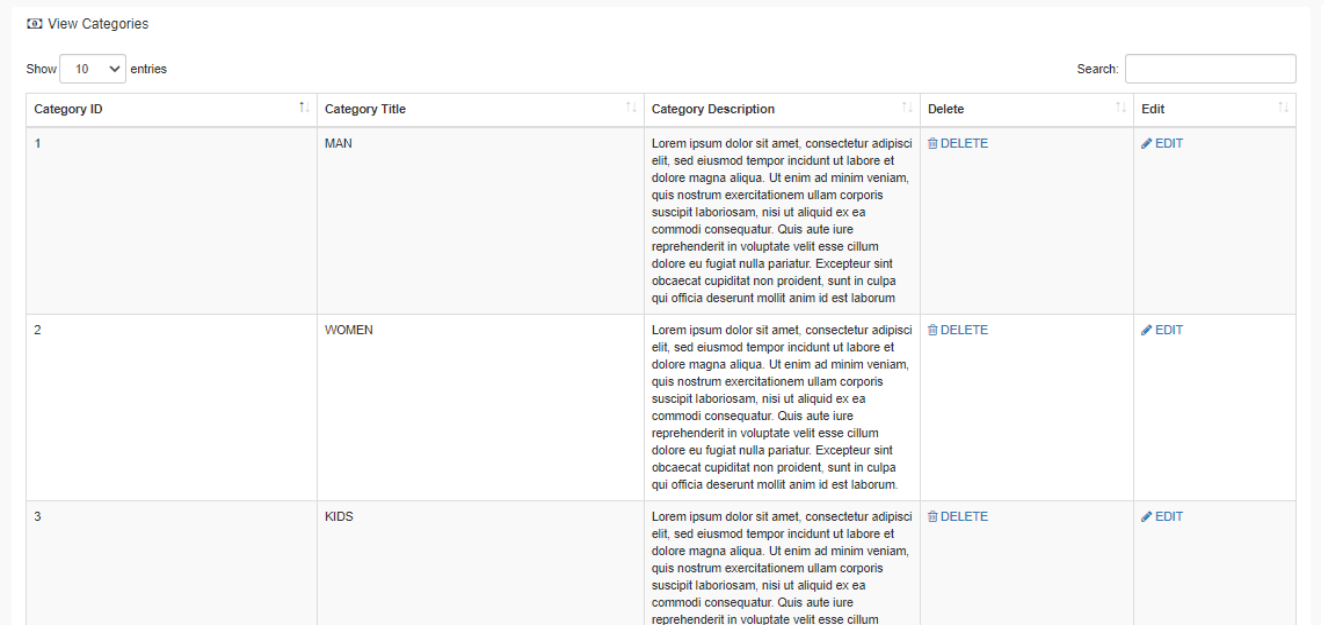




Description	Product Categories Management
From	ADMIN PAGE
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	Admin can insert view, edit and delete product categories When adding, you must comply with the requirements of the form

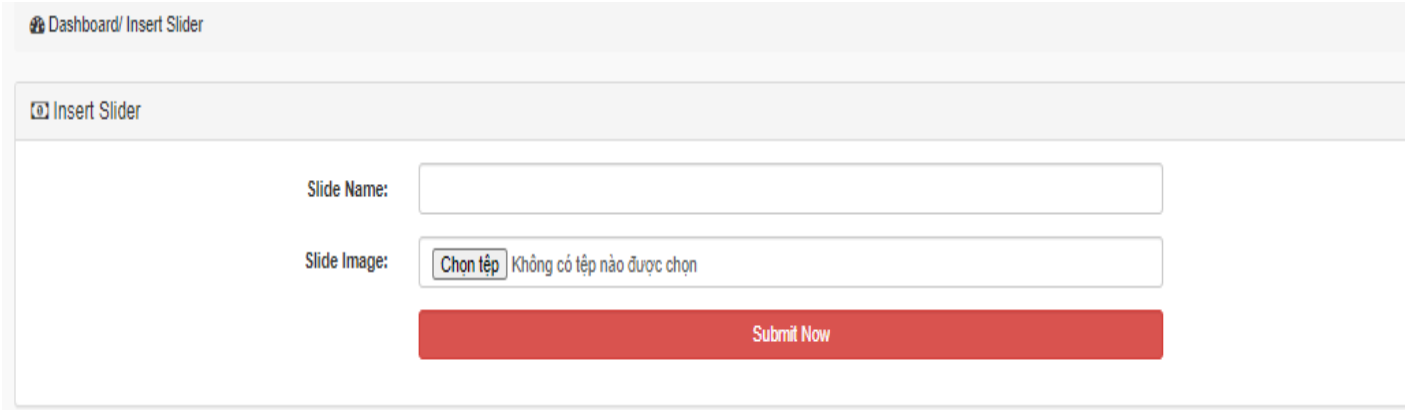
VIII.v Insert + View Categories





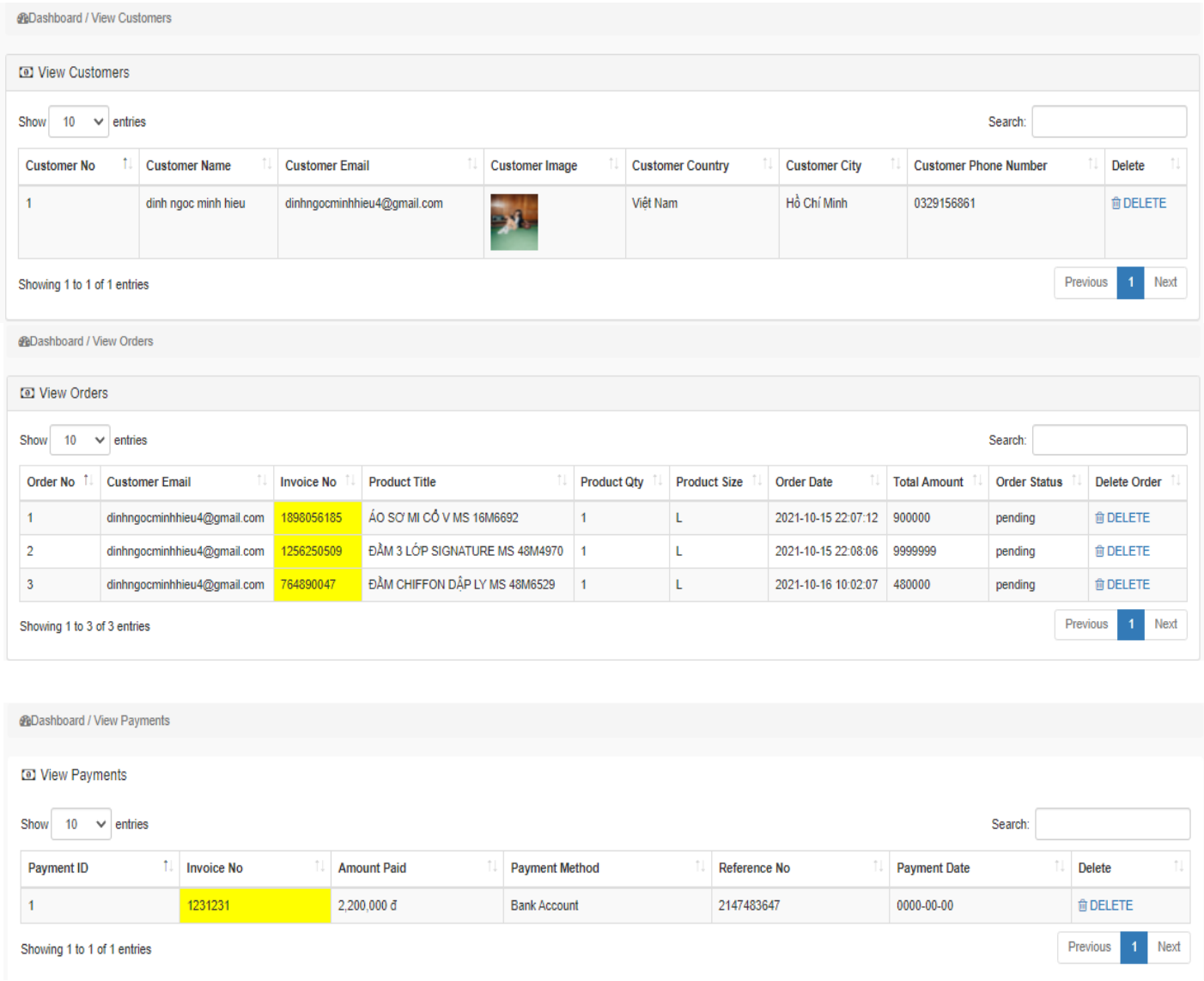
Description	Categories Management
From	ADMIN PAGE
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	Admin can insert, view, edit and delete categories. When adding, you must comply with the requirements of the form.

VIII.vi Inset + View Slider



Description	Slider Management
From	ADMIN PAGE
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	-Admin can add new slides - Admin can view, edit and delete slides. Slides can only be up to 4.

VIII.vii View Customer + View Order + View Payment



Description	View Customer, View Order, View PayMent
From	ADMIN PAGE
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	Admin can View and Delete Customer, Order and Payment.

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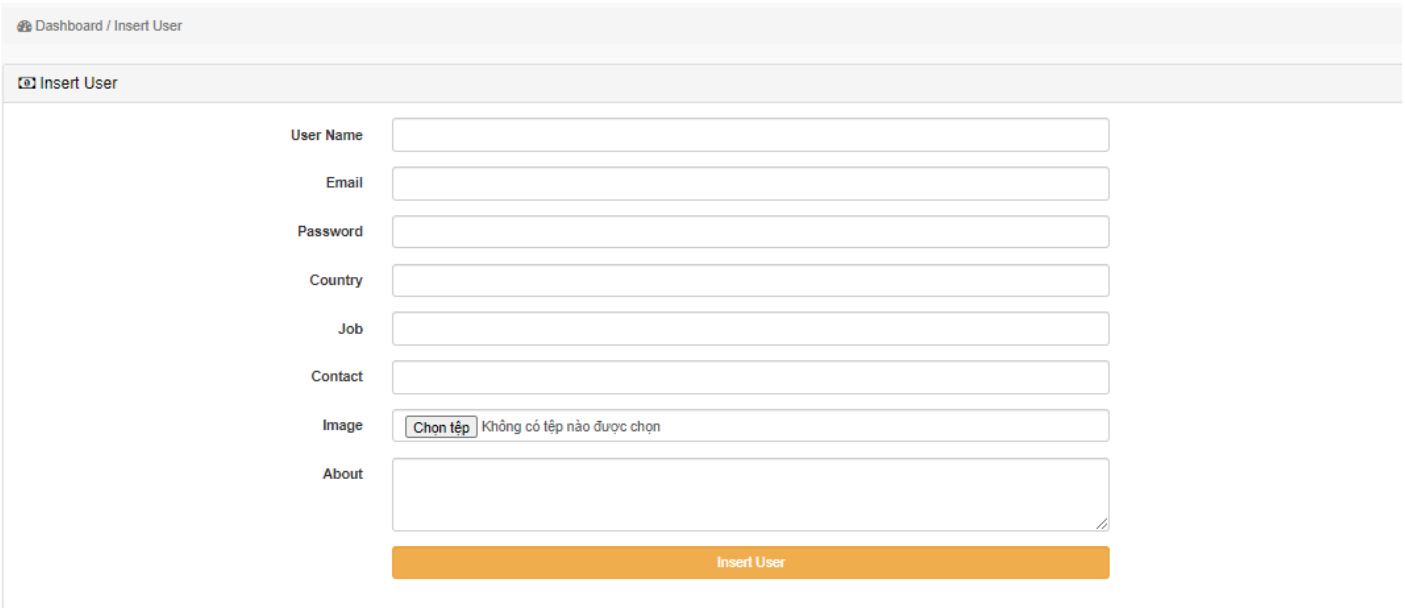
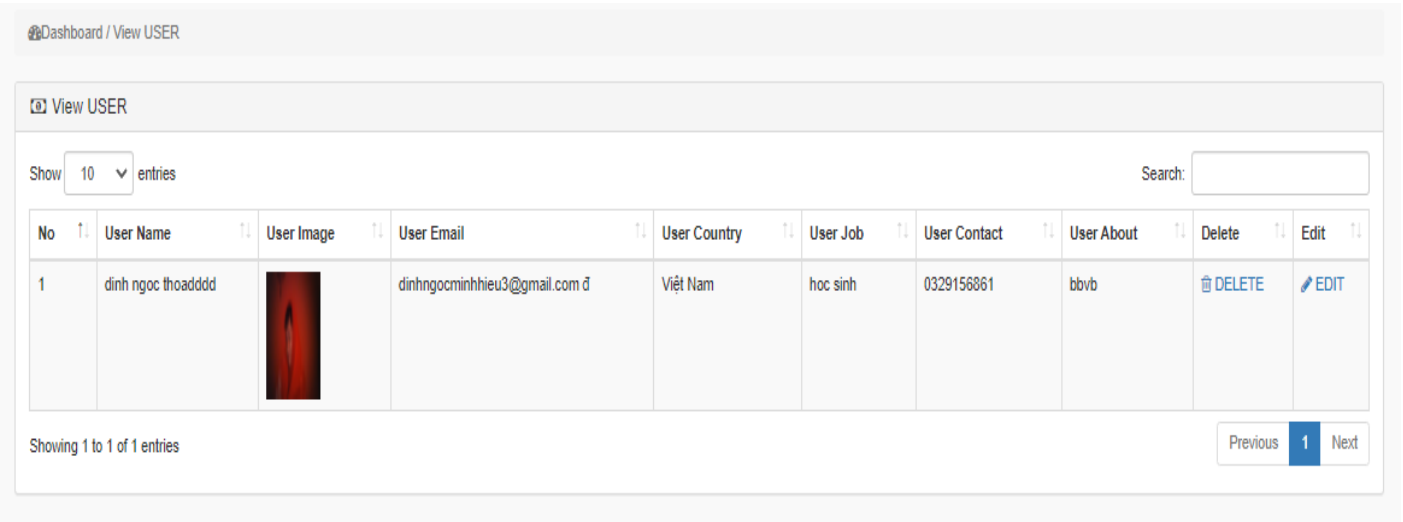
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

VIII.viii View+Insert Admin Acount





Description	add administrator.
From	ADMIN PAGE
To	Edit Admin information, Application Rows, Products, Categories, Slider, Product Categories,Categories,User Page
Event	The old admin can add more admins. (must have trust) Administrators can view edit and delete other administrators. When adding, you must enter the correct conditions of the form.

TESTING DOCUMENT

Sr.No	Features Tested	Remarks
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8		

	Prepared by (Student)	Approved by (Faculty)
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

	Do all image links lead to the appropriate website?	
9	Are all the images and links clearly visible on the page?	
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	

Final checklist

Sr.No	Aspected Tested	Suggestion/ Remarks
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8	Do all image links lead to the appropriate website?	
9	Are all the images and links clearly visible on the page?	
10	Does the Web page work properly in all the tested browsers?	

	Prepared by (Student)	Approved by (Faculty)
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		

11	Does the Web page take too long to be loaded fully?	

No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planed Start Date	Actual Start Date	Actual Days	Status
1	**ĐinhNgọc Minh Hiếu**	Admin	View Product	PRODUCT	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Product		10/5/2021	10/25/2021	21	
		Customer	View Product		10/5/2021	10/25/2021	21	
			View Detail Product		10/5/2021	10/25/2021	21	
			Add Proudct		10/5/2021	10/25/2021	21	
		Admin	N/A	CART	N/A	N/A	N/A	
		Customer	View Product in Cart		10/5/2021	10/25/2021	21	
2	**Nguyễn Trần Hoàng Phúc**	Admin	View/Delete Customer	CUSTOMER	10/5/2021	10/25/2021	21	
		Customer	Login/Register		10/5/2021	10/25/2021	21	
			Edit Profile / Change Password		10/5/2021	10/25/2021	21	
			Delete Acount		10/5/2021	10/25/2021	21	
		Admin	View Product Categories	PRODUCT CATEGORIES	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Product Categories		10/5/2021	10/25/2021	21	
		Customer	View Categories product		10/5/2021	10/25/2021	21	
3	**Văn Khánh Phát**	Admin	View/Delete Customer Order	CUSTOMER ORDER	10/5/2021	10/25/2021	21	
		Customer	Making order		10/5/2021	10/25/2021	21 21	
		Admin	View Slide	SLIDER	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Slider		10/5/2021	10/25/2021	21	
		Customer	View Slider		10/5/2021	10/25/2021	21	
4	**Phạm Trần Hoàng Anh**	Admin	View/Insert/Edit/Delete Admin Acount	ADMINS	10/5/2021	10/25/2021	21	
		Admin	View Categories	CATEGORIES	10/5/2021	10/25/2021	21	
			Insert/Edit/Delete Product Categories		10/5/2021	10/25/2021	21	
		Customer	View Categories		10/5/2021	10/25/2021	21	
		Admin	View payment/ Delete Payment	PAYMENT	10/5/2021	10/25/2021	21	
		Customer	Confirm if payemnt		10/5/2021	10/25/2021	21	

	Prepared by (Student)	Approved by (Faculty)
	Project Group No:02	*LE THANH NHAN*
Signature		
Date		