ASSIGNMENT 2 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Computing		
Unit number and title	10: Website Design & Development		
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Class	GCH0803	Assessor name	Lai Manh Dung

Student declaration

I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.

	Student's signature	*Tai*

Grading grid

P5	P6	P7	M4	M5	D2	D3

☼ **Summative Feedback:**   ☼ **Resubmission Feedback:**

Grade:	Assessor Signature:	Date:
Signature & Date:		

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Introduction

In business, diversifying the user approach is crucial for a business. Looking back here, along with the development of the technology cluster, the word "online selling" has become familiar to large and small businesses, and is considered an effective and effective approach to new customers. Cost savings. Owning an online store and providing modern fast payment tools through the website has brought many profits for businesses. Sensitive businesses always know how to renew themselves and satisfy customers, they especially important a long-term and reputable website development plan to bring customers back to them. To achieve this goal, before that, it must be the foundation, initially for the website as the basis for further development.

In this semester, the author had learned about website design and development, to fulfil this course he had been taught about website technology and three programming languages include: HTML, CSS and PHP. Therefore, author's assessor gave him this assignment. Here is the scenario: Working as a full-stack web team leader for a leading creative web solutions and marketing company. Author's team is about to have a big contract to develop an online shopping mall. In order to finish the work effectively he need to review all appropriate principles, standards and guidelines for website designing and development, evaluate all technical challenges to produce a good design document for the online shopping website with wireframes, functional illustrations and a full set of client and user requirements. Then, the author has to lead his team to utilize web design and development technologies, tools and techniques to implement team's web design to develop the online shopping website. To get good result, he always asks his team for following your design document by comparison between created multipage website with his design document and evaluation. As his role, to ensure that the multipage website for online shopping developed by his team is a high quality product, he also need to ask your team members to follow quality assurance process and implement it during his design and development stages by creating a suitable test plan. The test phase should be seriously implemented by reviewing and analyzing all test results to evaluate applied quality assurance process and point out suggestions of improvements for online shopping website. According to the scenario, he would perform an online phone store.

I.   Create design document

1. Client and user requirement analysis

The first thing that we need to consider when selling is the needs and preferences of the customer. What are the customer needs here? First of all, it is advisable to learn about the problems and difficulties that customers have in order to find useful features to choose a suitable website design service. For example, difficulties in payment, difficulties with travel or transportation, ... to choose a website design service that can integrate online payment or transport connection, ...

Pay attention to potential customers 'preferences for their products to be able to design such a suitable website interface that can attract customers' attention.

When outlining an overall design plan for a website, it is necessary to pay attention to the following basic elements:

- The main color of the website must match the color of the company logo.
- The ads and menus are the right size.
- The location of utility tools on the website must be arranged scientifically and easy to use.
- The image of the product should be clear, preferably simulated and enlarged for easy reference by customers ...

The aesthetics of the website are meant to impress and attract customers, but to retain customers and bring them back to the website the next time it is decided by the content presented on the website. Customers will feel satisfied when the online store is capable of meeting the following needs: finding products quickly, products with enough information to choose from, and purchasing quickly. To meet the above objectives, special attention should be paid to the arrangement of product categories and ordering - payment tools on the website. Requirements for product categories: categorize specific products and on each category need the fastest product search engine. Lists product listings by category, sorting product display order by certain criteria such as price, product launch date or product name. Provide detailed information of each product to customers: name, price, picture, usage information, special attributes or note when using the product.
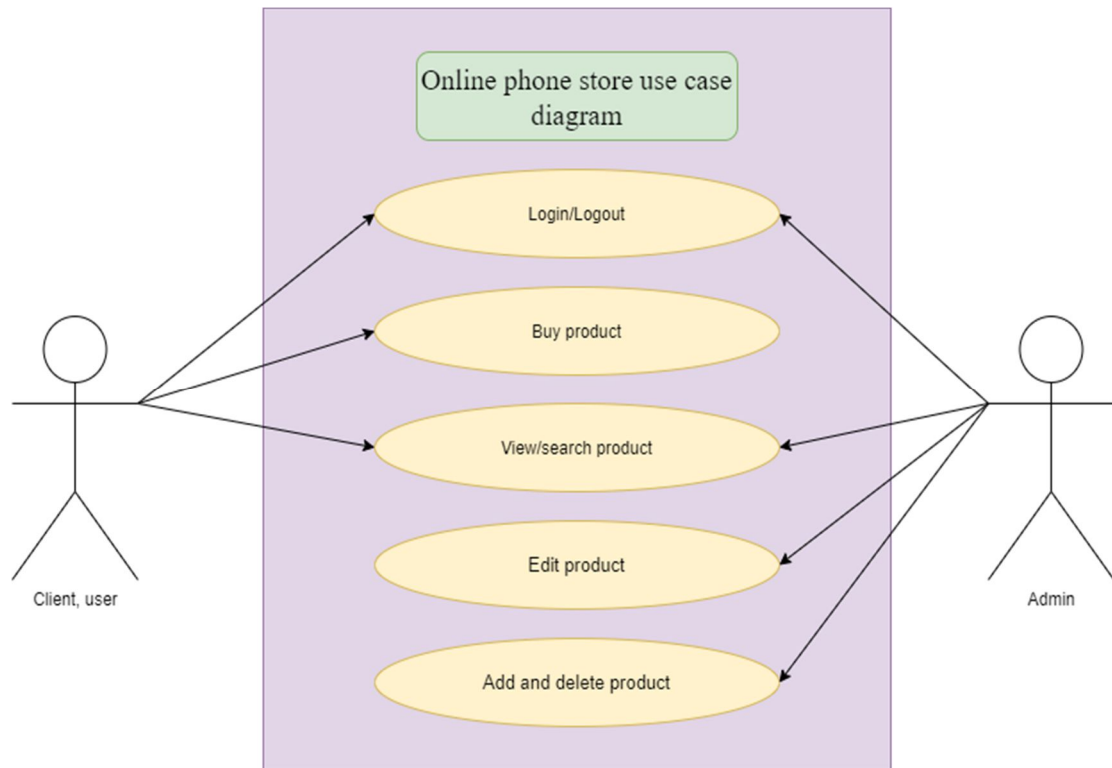
2. Use case diagram

FIGURE 1-USE CASE DIAGRAM
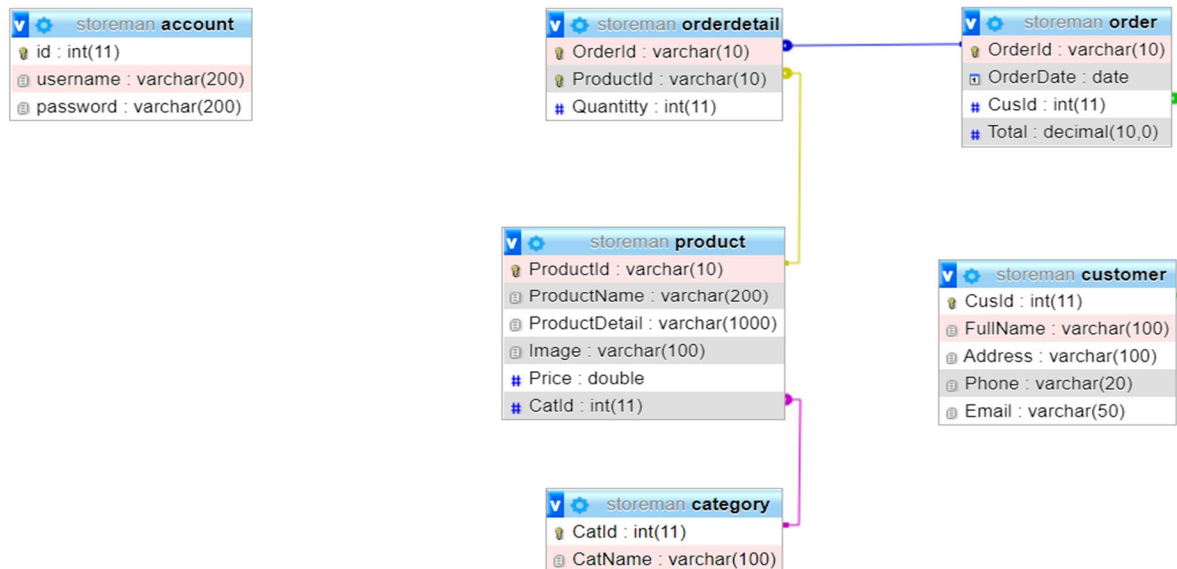
3. Database diagram
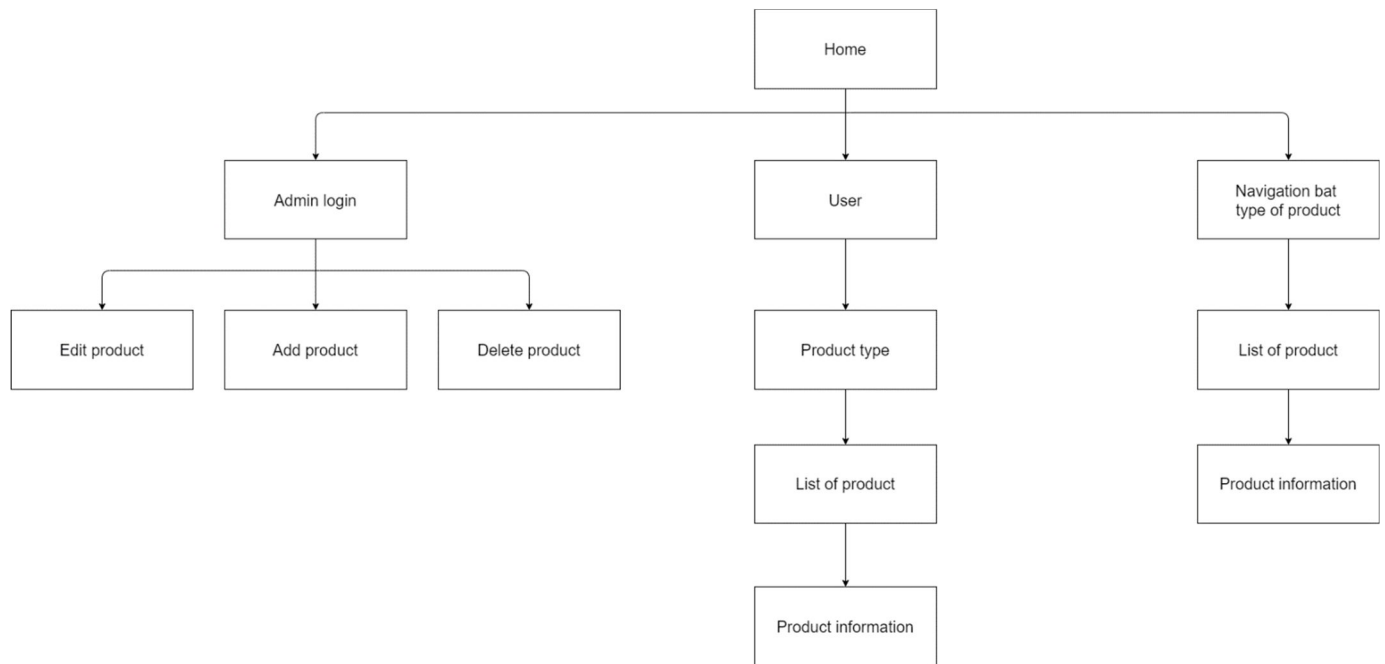

FIGURE 2-DATABASE DIAGRAM

4. Site map

FIGURE 3-SITE MAP

5. Review design principles

a. Purpose

Your website needs to meet the needs of your users. Has a simple, clear purpose on all pages that helps users interact with what you have to offer. What is the purpose of your website? Are you communicating facts like 'The way the way'? Is it entertainment like sports or are you selling products to users? There are many different purposes that websites can have but there are core purposes that are common to all websites:

- Professional description
- Build your reputation
- Create leads
- Sales and aftercare

b. Simplicity

Simplicity is the best way to look at your user experience and usability of your website. Here are ways to achieve simplicity through design.

- Color: Color has the power to convey messages and evoke emotional responses. Finding the right color scheme for your brand will allow you to influence customer behavior toward your brand. Keep color selections limited to less than 5 colors. The complementary color works very well. The pleasant color combination increases customer engagement and makes the user feel pleasant.

- Type: Typography has an important role to play on your website. It directs the attention and acts as a visual interpretation of the brand's voice. The typeface should be easy to read and only use up to 3 different fonts on the site.

- Picture: Images are every visual aspect used in communication. This includes stills, illustrations, videos, and all types of graphics. All images must be expressive and represent the spirit of the company and embody their brand personality. Most of the original information we use on the web is intuitive and as first impressions, it's important to use high-quality images to make an impression of professionalism and credibility to customer.

c. Navigation

Navigation is the way the search system is used on websites where visitors interact and find what they are looking for. Site navigation is the key to attracting visitors. If navigating the site is confusing, visitors will give up and find what they need elsewhere. Keeping navigation simple, intuitive, and consistent on every page is key.

d. Visual hierarchy

The visual hierarchy is an arrangement of elements in order of importance. This is done by size, colors, images, contrast, typography, whitespace, texture and style. One of the most important functions of a visual hierarchy is to set focus. This tells the visitor where the most important information is.

e. Content

An effective web design has both great design and great content. Using compelling language, great content can attract and influence visitors by converting them into customers.

f. Grids base layout

Grids help structure your design and keep your content organized. The grid helps align elements on the page and keep it clean. A grid-based layout arranges content into a clean rigid grid structure with columns, alignment and a sense of balance, imposing order, and the result is an aesthetically pleasing web page.

g. Friendly

Many people are using their phones or other devices to browse the web. It's important to consider building your website with a responsive layout, where your website can be tailored to different screens.

6. Wire frames and specific explanation
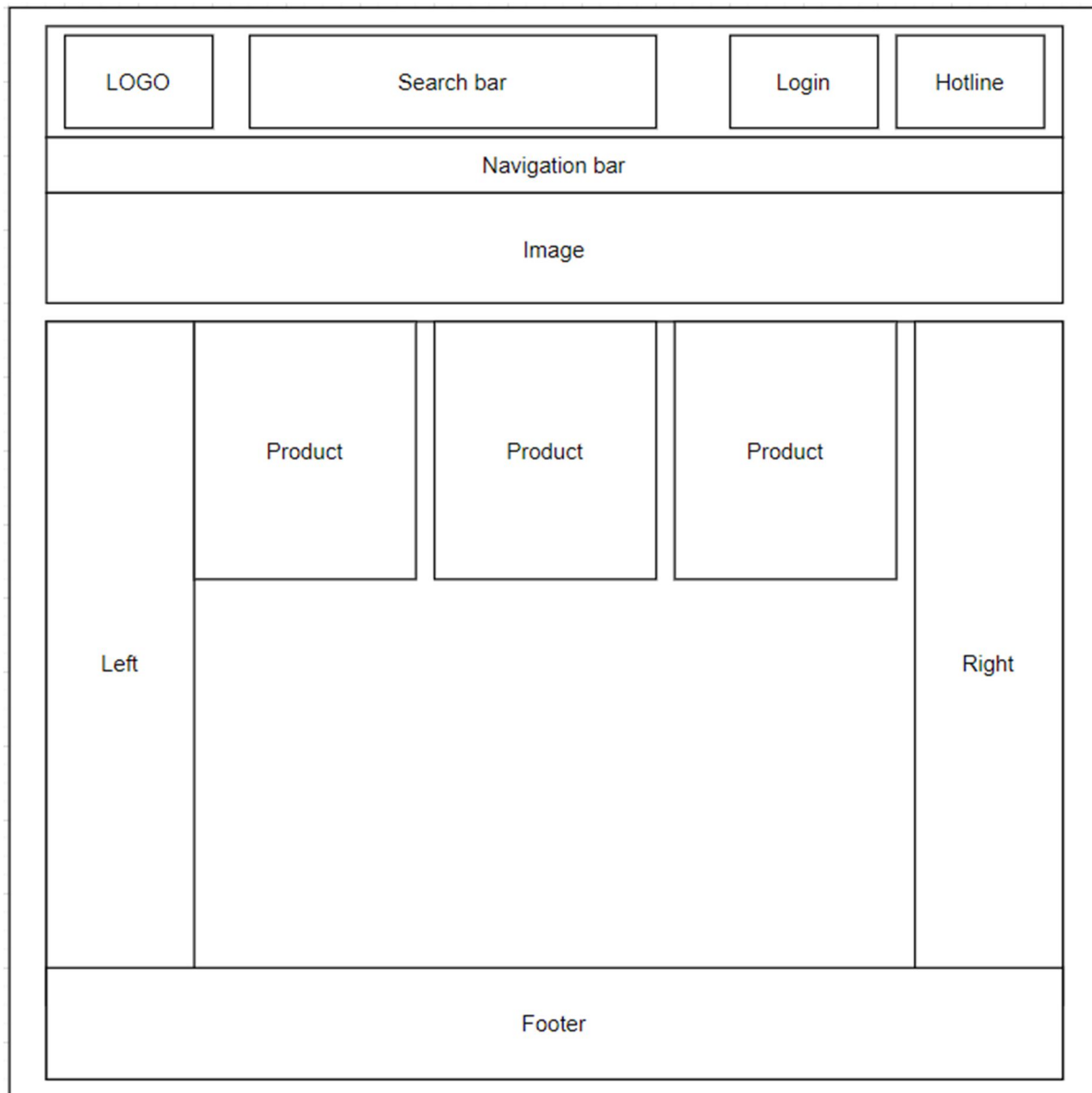
FIGURE 4-HOME PAGE ON WIRE FRAMES

Outlook: User can see the entire interface of website and product.

Title:

- Website cover photo.

- Store logo.

• The navigation bar displays the product categories in the store.

Login button for administrators and users.

Page Content: Image, Price, Product Name.

Left and Right: Decorative images, advertising.

Footer: Contacts, contact network logo, emergency phone number.
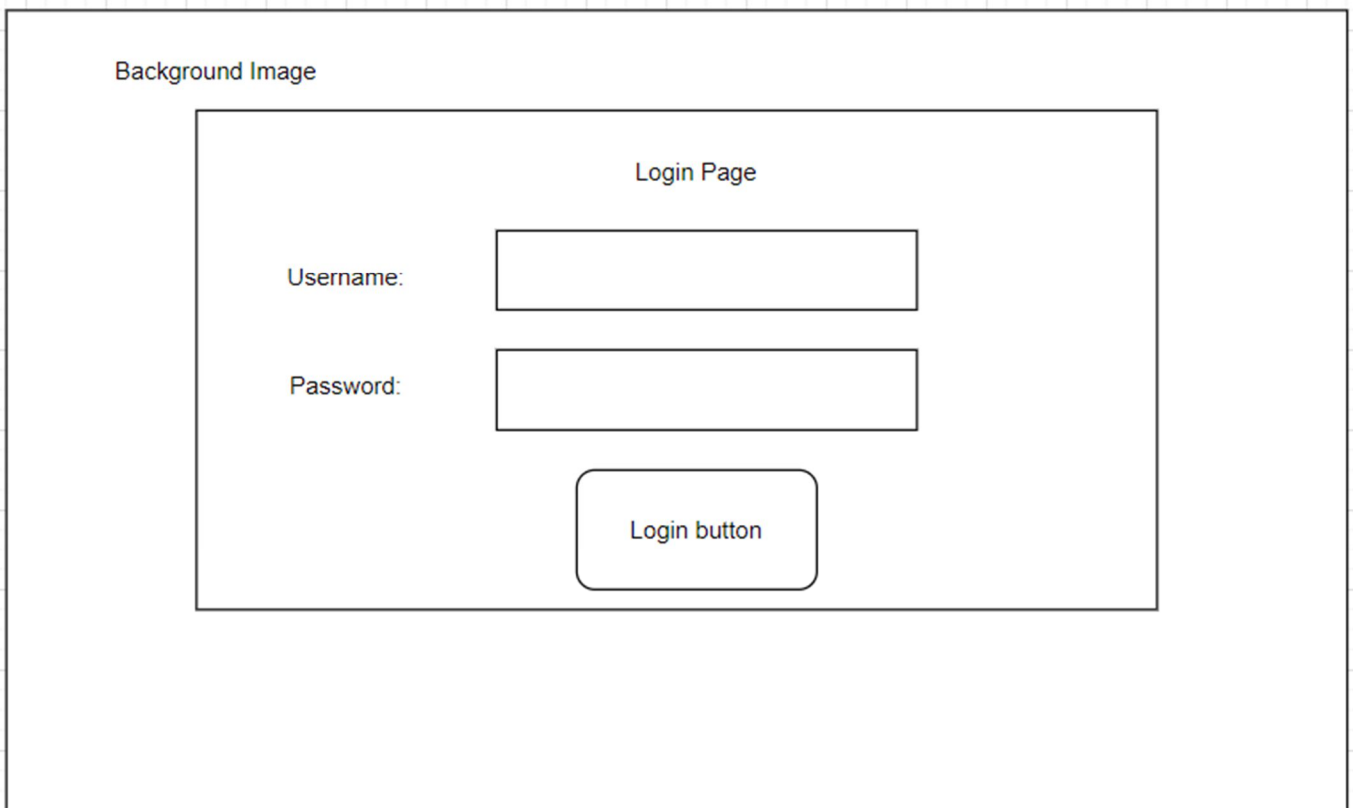
FIGURE 5-LOGIN PAGE ON WIRE FRAMES
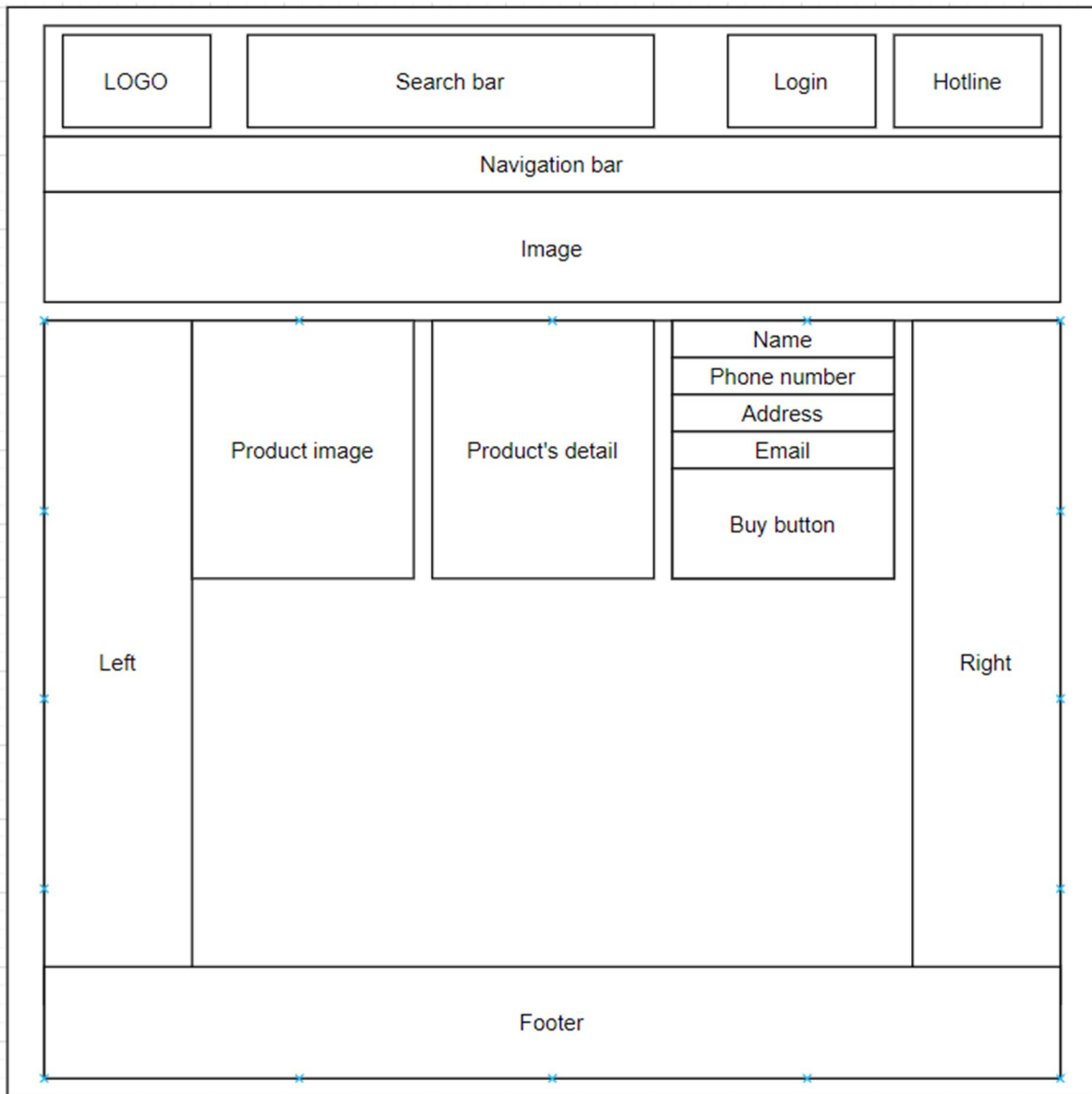
FIGURE 6-PRODUCT DETAIL ON WIRE FRAMES

Overlooking: The user can see the product's information.

Title:

• Website cover photo.

• Store logo.

• The navigation bar.

Page Content: Product Image, Price, Name and Details. Input information of customers if they want to buy product.

Left and Right: Decorative images, advertising.

Footer: Contacts, contact network logo, hotline.

LOGO	Search bar		Logout	Hotline

Navigation bar

Image

Product ID	
Product Name	
Image	
Product Detail	
Category	Apple ⌄
Price	
	Add

ProductId	Image	Product Name	Product detail	Price	Action(Edit and delete)

Footer

FIGURE 7-ADMIN INTERFACE ON WIRE FRAMES

II. Website implementation

1. Functional screen shot after implementation
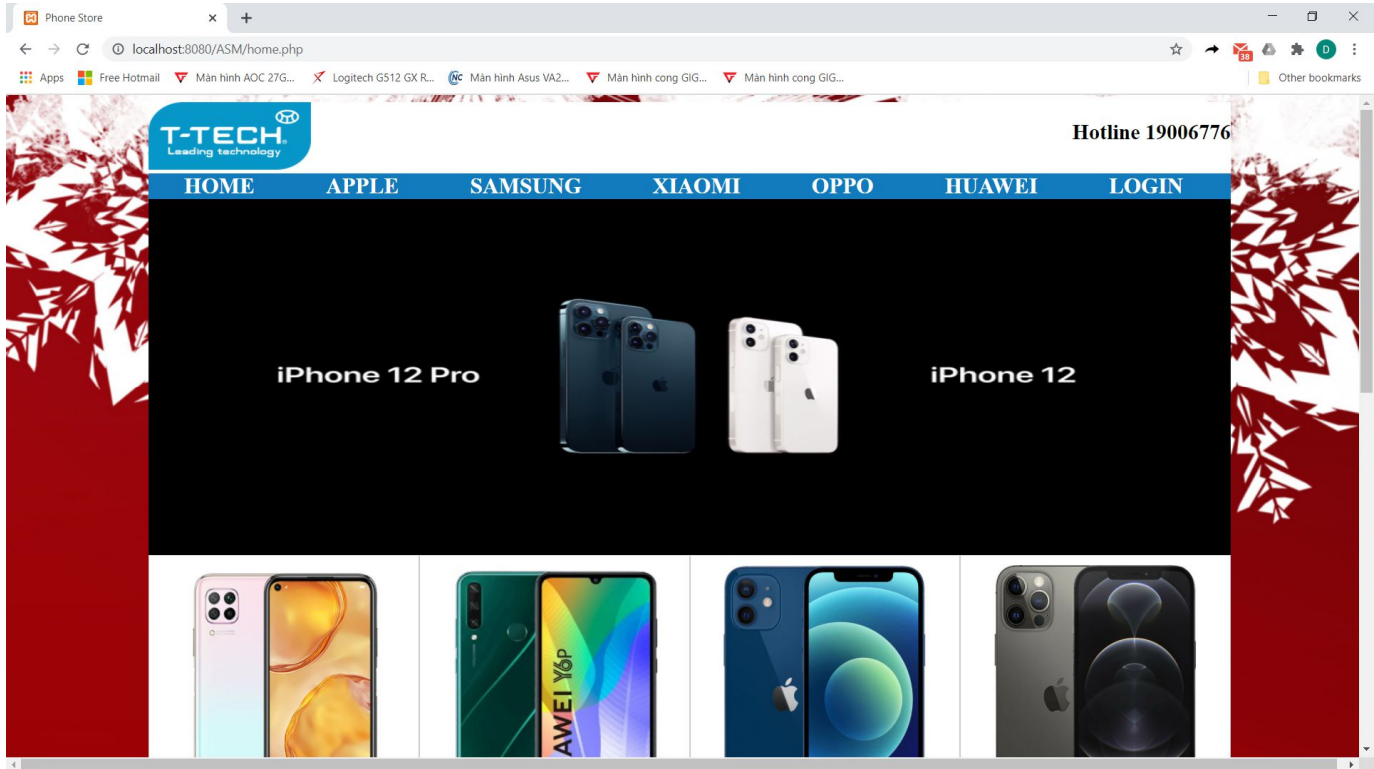
FIGURE 8-HOME PAGE

After accessing the link: "http: //localhost:8080/ASM/home.php" will display the shop's website with the background image, store's logo and hotline. Along with that is the navigation bar containing the "Home" button and the logo on the title to go back to the home page and see all products, "Apple" to see Apple's products, "Samsung, Huawei, Xiaomi, Oppo" also have the same function.
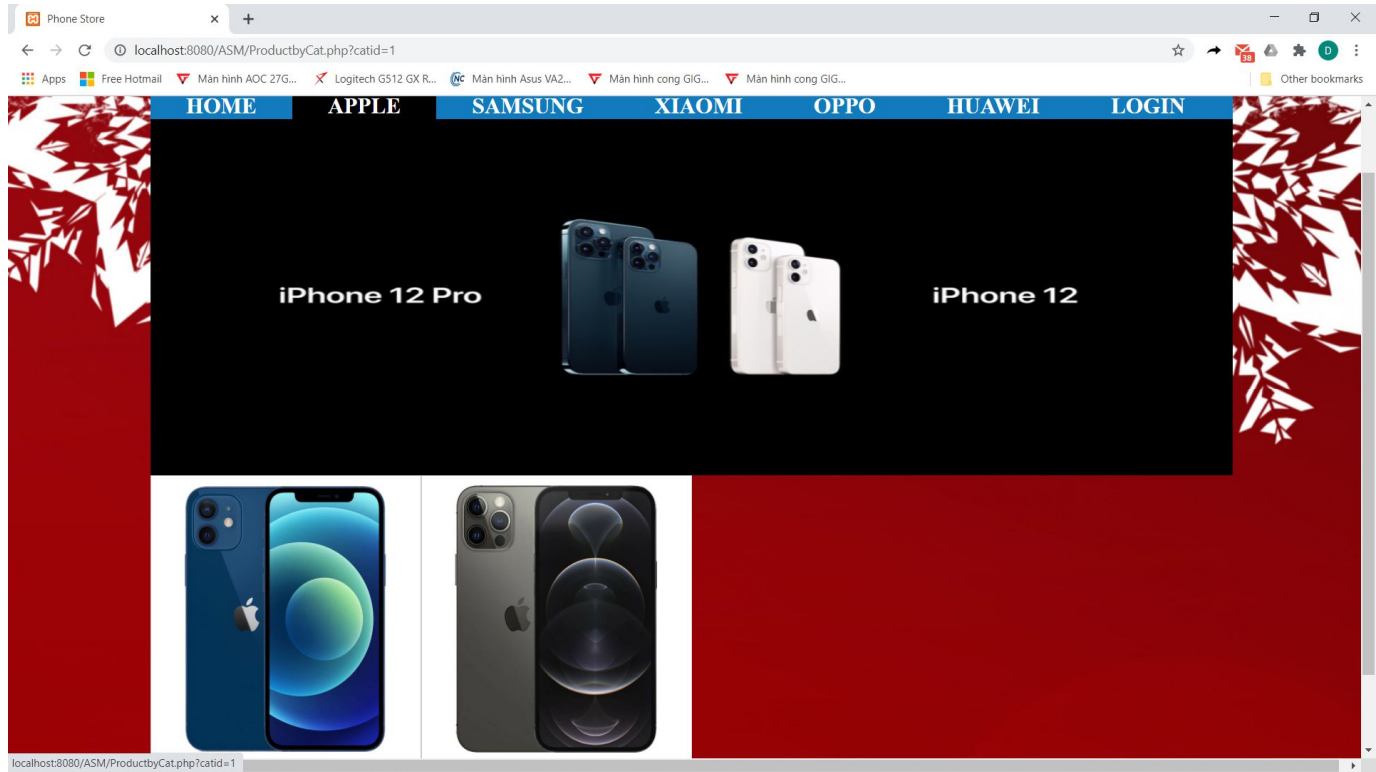
FIGURE 9-APPLE'S PRODUCTS

This is finding products buy category function.
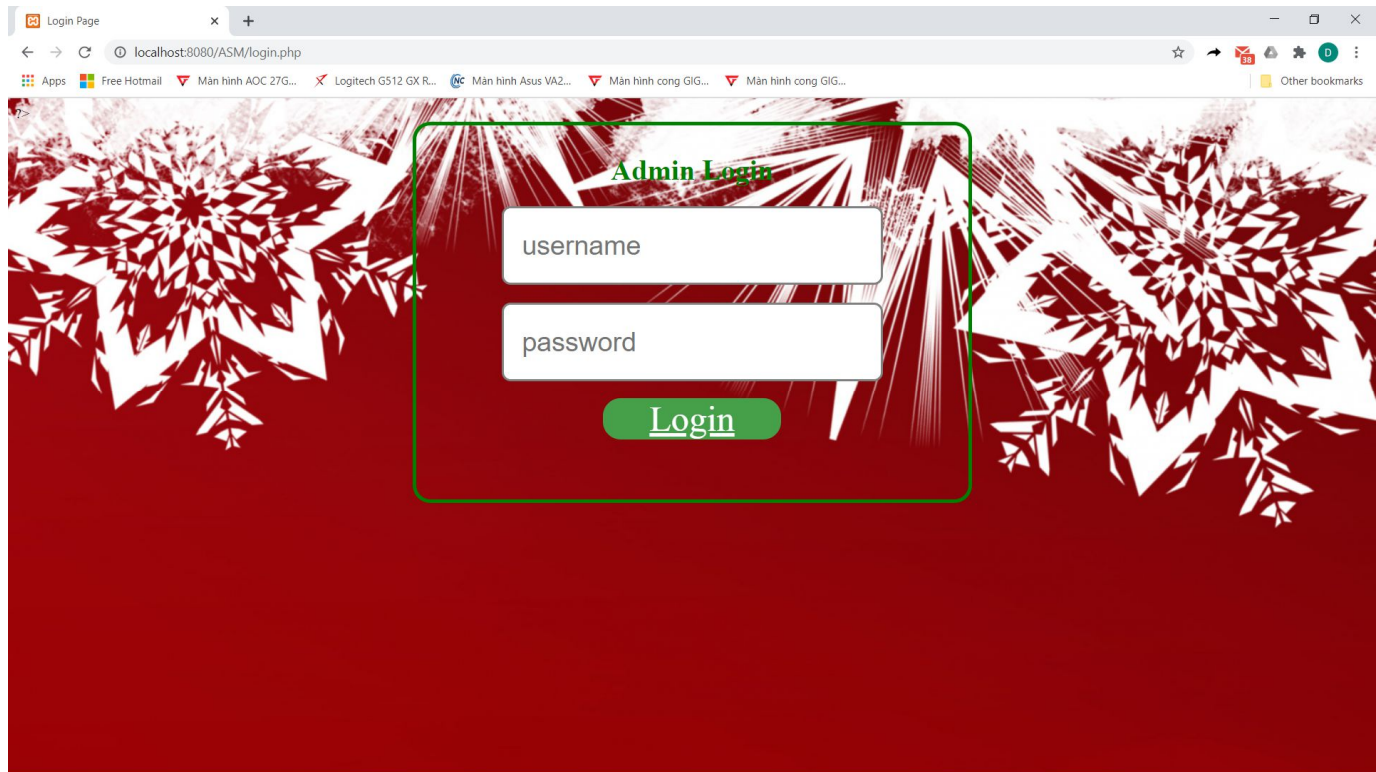
FIGURE 10-LOGIN PAGE

After click the Login button on navigation bar, user will come to Login Page to login into system. Only admin has role to use this function successfully.

FIGURE 11-ADMIN PAGE

Admin has right to add, delete and edit product in store.

After add, edit or delete any products in the store, the result will display at admin page and home page immediately. Notice: when admin click edit the Add button will change to Save button.
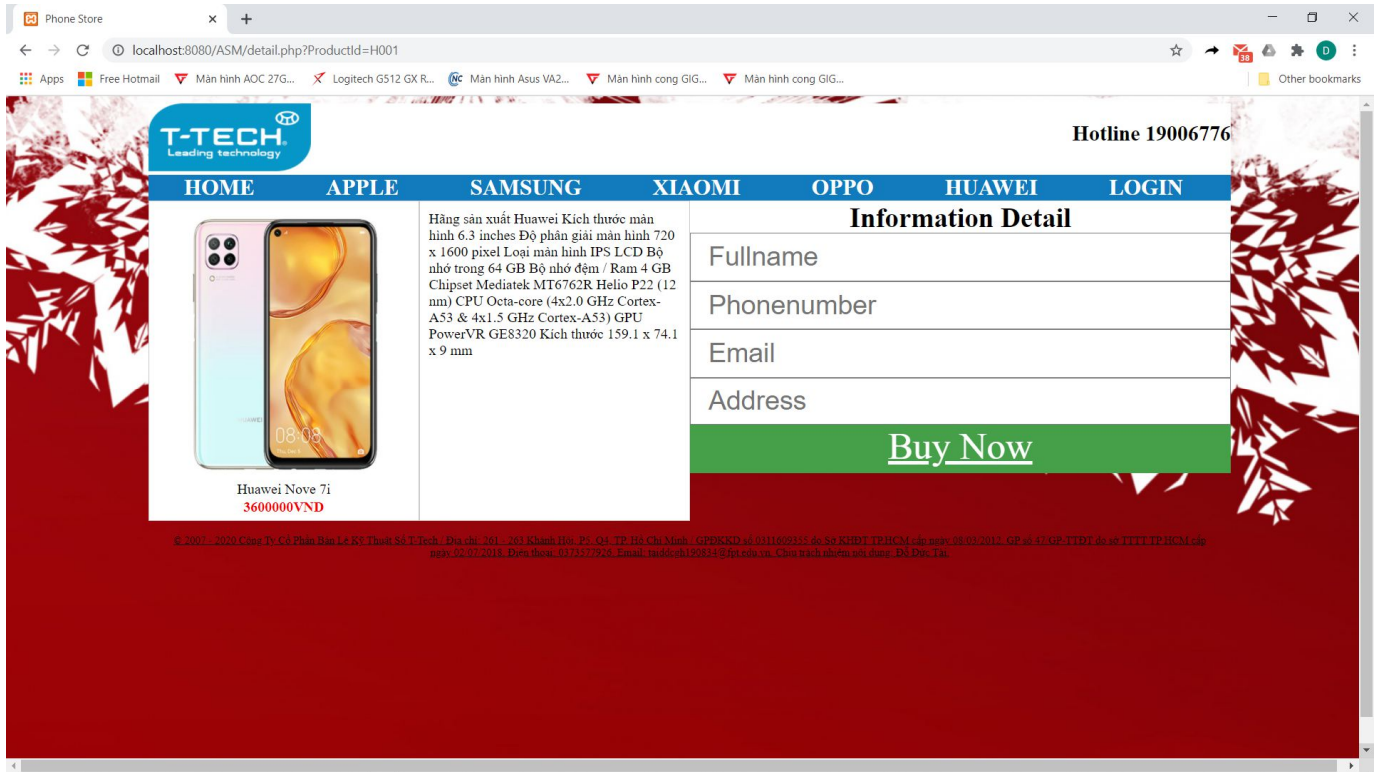
FIGURE 12-PRODUCT DETAIL

If user click on a product, the product's information will appear and there is an input place for users if they want to buy product.

2. Some screenshots related to error handling

In the admin page if admin did not fulfil all product information, the screen will immediately notify that "Sql statement execution fail"

Product ID	
Product Name	asd
Image	
Product Detail	
Category	Apple
Price	
	Add

Sql statement execution fail

Next, in edit page, if admin did not note all the information, all the bar will send the error. Like this:

III.   Test Plan

No	Test case	Input data	Expected output	Actual output	Evaluation
1	Login button	Click on Login button	Go to the login page	Go to the login page	Pass
2	Login	Username: admin Password: 123	Access	Access	Pass

3	Check login error handling	Click login button without username	Displays a message asking for a username or password	Did not have any response	Failed
4	Add a product	Fulfill all the information	New product display on admin page and home page	New product display on admin page and home page	Pass
5	Edit a product	Change all the information	New information was updated	New information was updated	Pass
6	Delete a product	Click delete	The product removed the admin page and home page	The product removed the admin page and home page	Pass
7	Check add function handling error	Add a product without product's ID	Display Sql statement execution fail	Display Sql statement execution fail	Pass
8	Check edit function handling error	Edit a product without name	Display error on screen	Display error on screen	Pass

TABLE 1-TEST PLAN

EVALUTION

After creating and arranging an internet shopping location, the author as of now know nearly HTML, CSS, and PHP. Utilizing these lingos, he did my site is running. Hence, he ran into a couple of botches nearly on the location when the writer tried it but he fathomed these botches and it's essentially running regularly. He did the one-board arrangement test with 10 test cases, with both ace and nearly cons my site. Author's site runs essentially as it is, and all capabilities work. On the store page, items and information has been shown and each thing is partitioned into areas within the category, the client will know the total information encompass the thing and clients can log in, enlist

and enter their data to sort the thing. The website visual was quite good, writer's assessor had no complain about the layout.

In this assignment, author had contributed his knowledge that he learned. This report may not be so detail but overall it reached all Pass conditions and it lack of conditions to get Merit and Distinction so it need to be improve and more professional in the future. During doing the assignment, it helps author understand better in some sessions but some sessions are still quite difficult to fully clear.