

Project Design Implementation and Evaluation

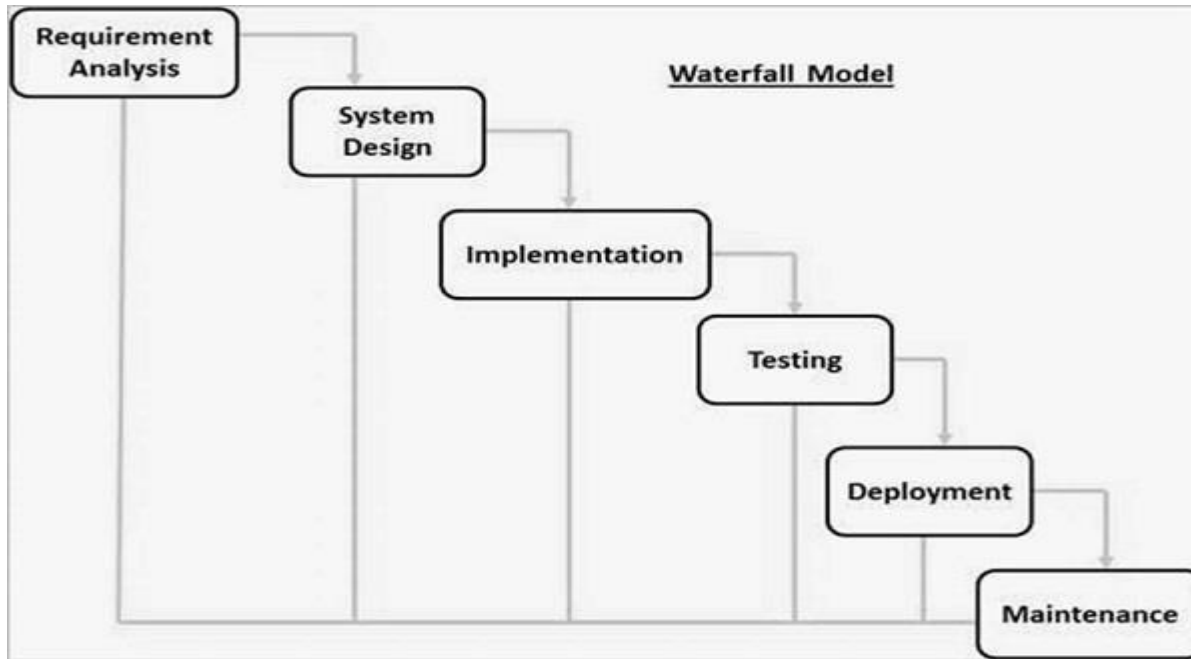
Lecture: Phạm Thùy Dương

Student: Vũ Trung Kiên

I. Development Methodology

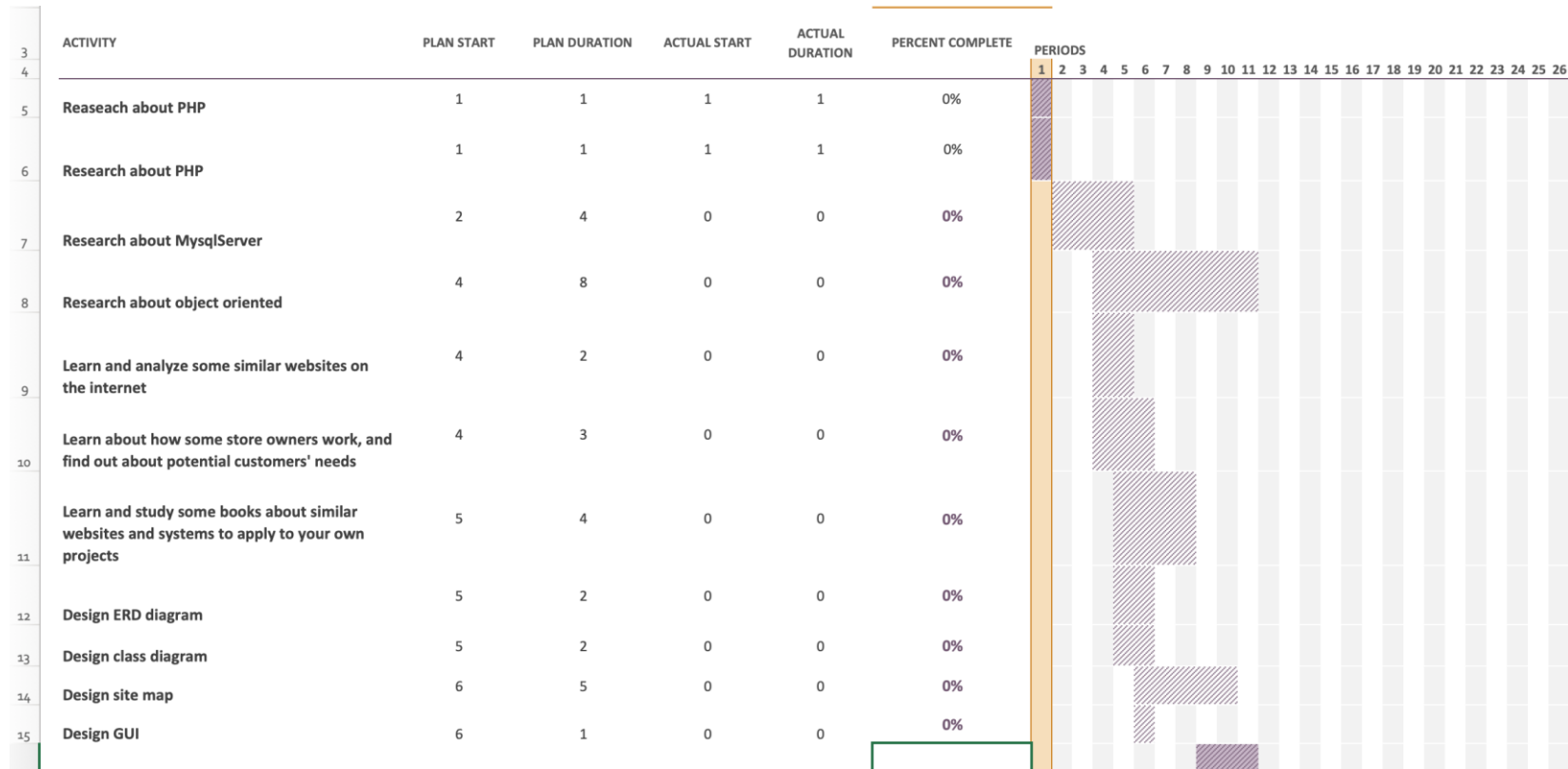
1. Waterfall Model.
2. Project Plan: Gantt chart.

Waterfall Model.



- ✓ Requirement Gathering and analysis
- ✓ System Design
- ✓ Implementation
- ✓ Integration and Testing
- ✓ Deployment of system
- ✓ Maintenance

Project Plan: Gantt chart.

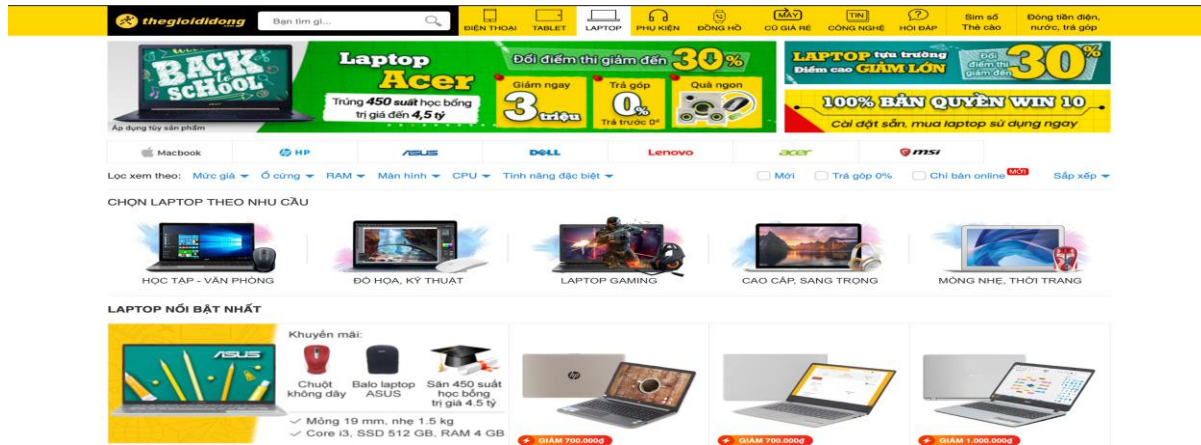


II. Requirement Specification

1. Investigate about requirement specification.

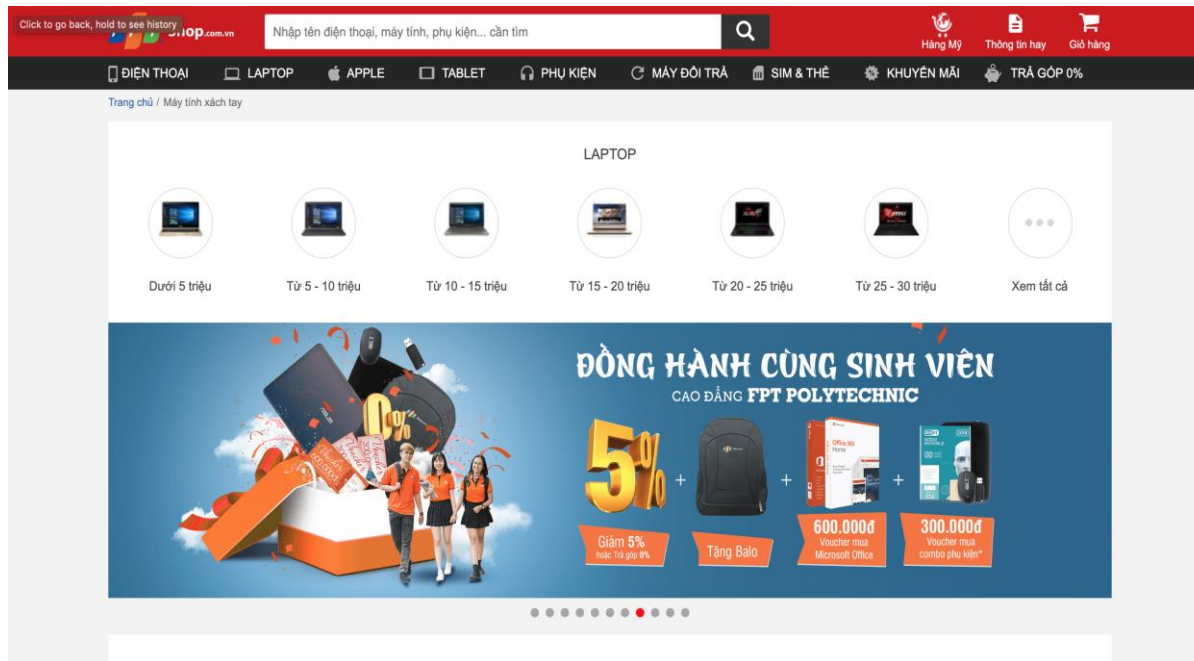
What product do you review?

Review website thegioididong



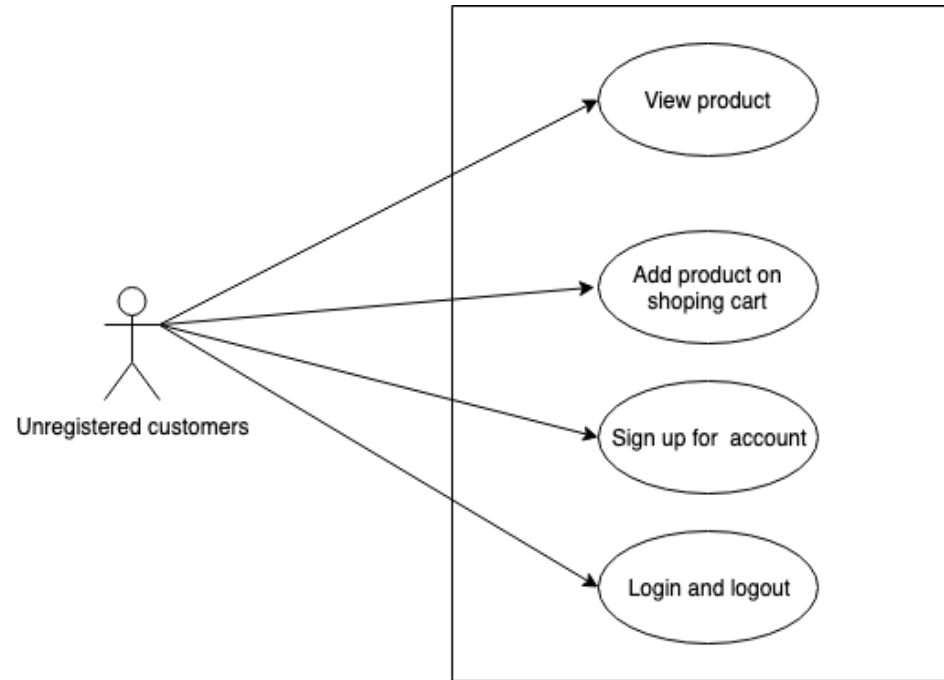
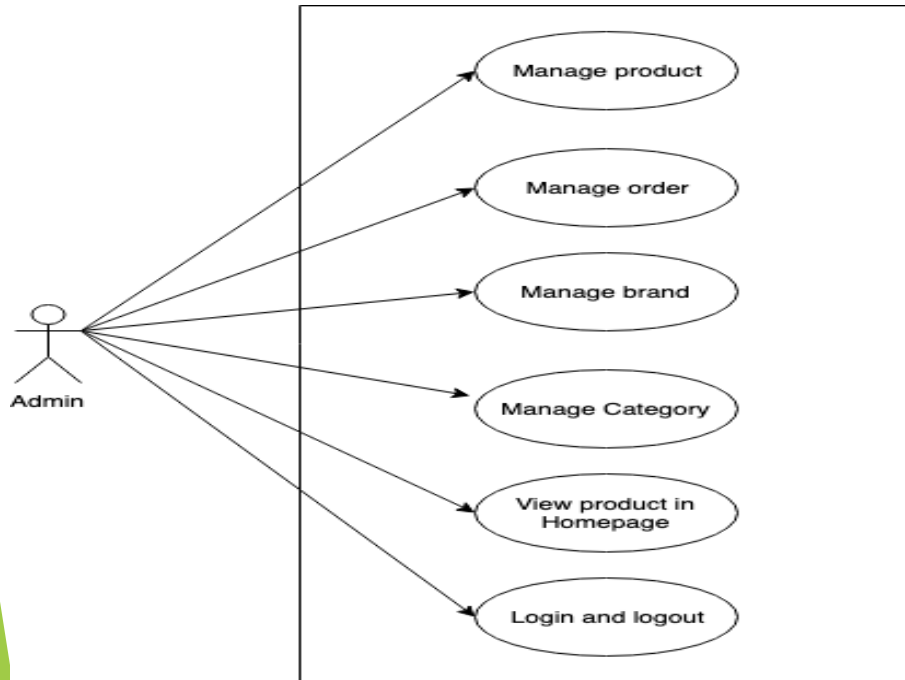
thegioididong is an online and offline store chain throughout Vietnam, specializing in supplying items mainly mobile phones and laptops ... always leading the way in and supplying new products. most meet the needs of public consumers.

Review fpt shop



Fpt shop is an online and offline store chain throughout Vietnam, specializing in supplying items mainly mobile phones and laptops ... always leading the way in and supplying new products. most meet the needs of public consumers.

1. The reasons Why I choose there website
2. What Features learnt?
3. The project specification
4. Introduction
5. Users/Roles
6. Role function of each user

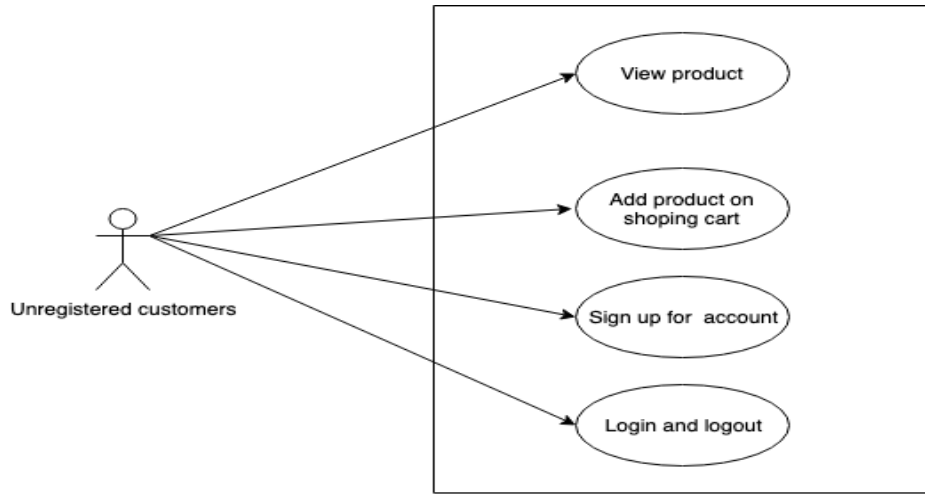


Use-case admin customer

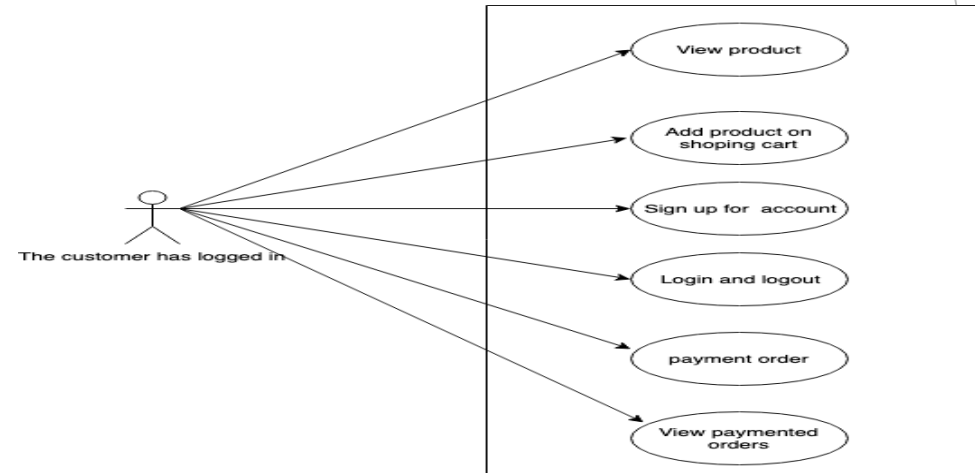
III. Analysis

1. Use-case Diagram
2. Use-case Descriptions

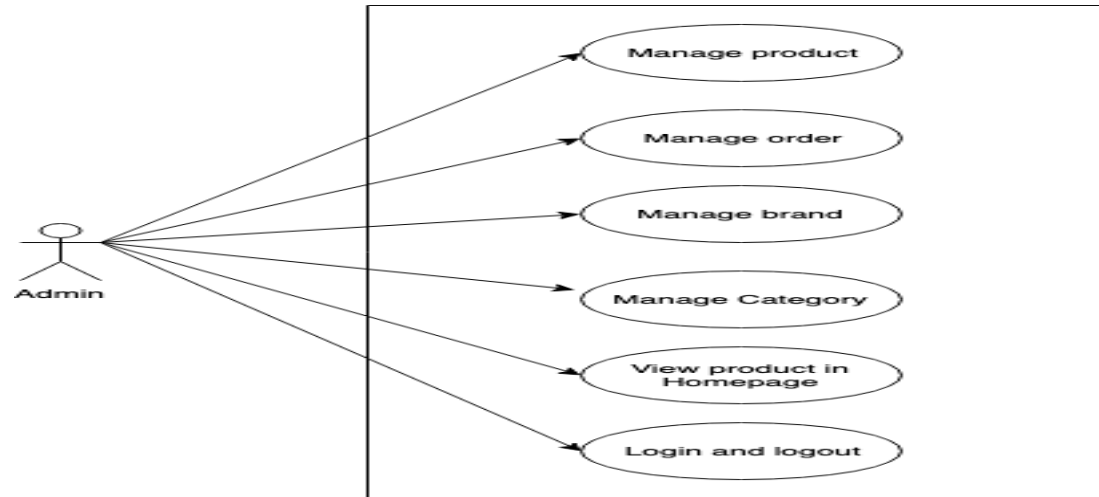
Use-case Diagram



Customer Unregistered



The customer has logged in



Admin

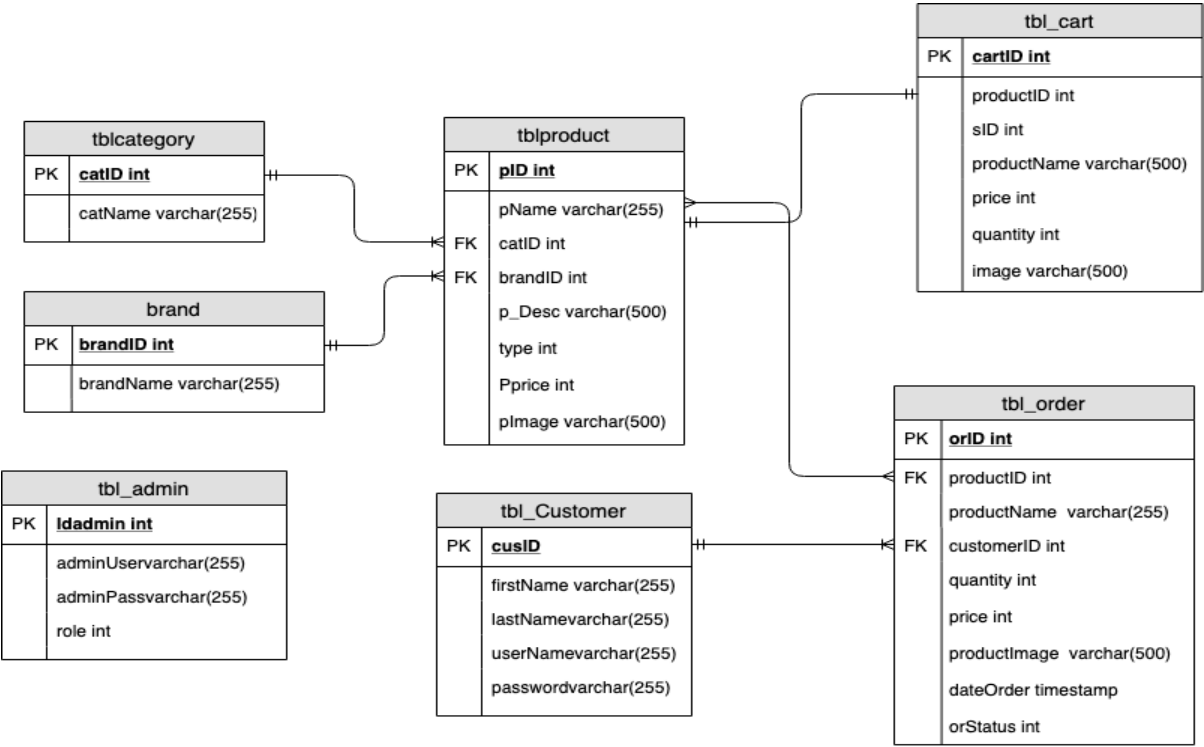
Use-case Descriptions

1. View product in homepage
2. Add product on shopping cart
3. Sign up.
4. login and logout.
5. Payment order.
6. View paymented orders.
7. Manage product.
8. Manage order.
9. Manage brand.
10. Manage category.

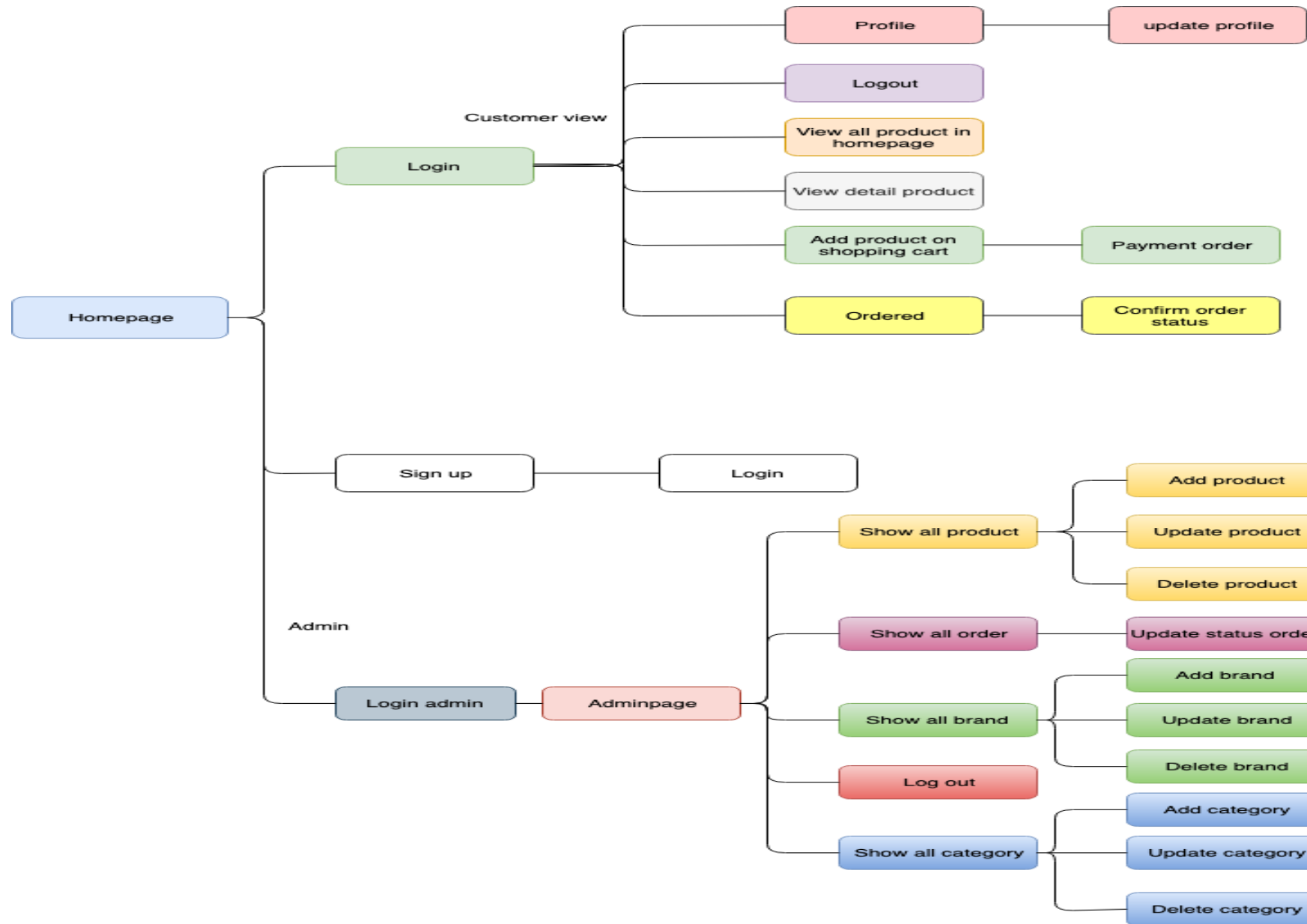
IV. Design

1. ERD
2. Sitemap
3. Class Diagram
4. Flowcharts
5. GUI

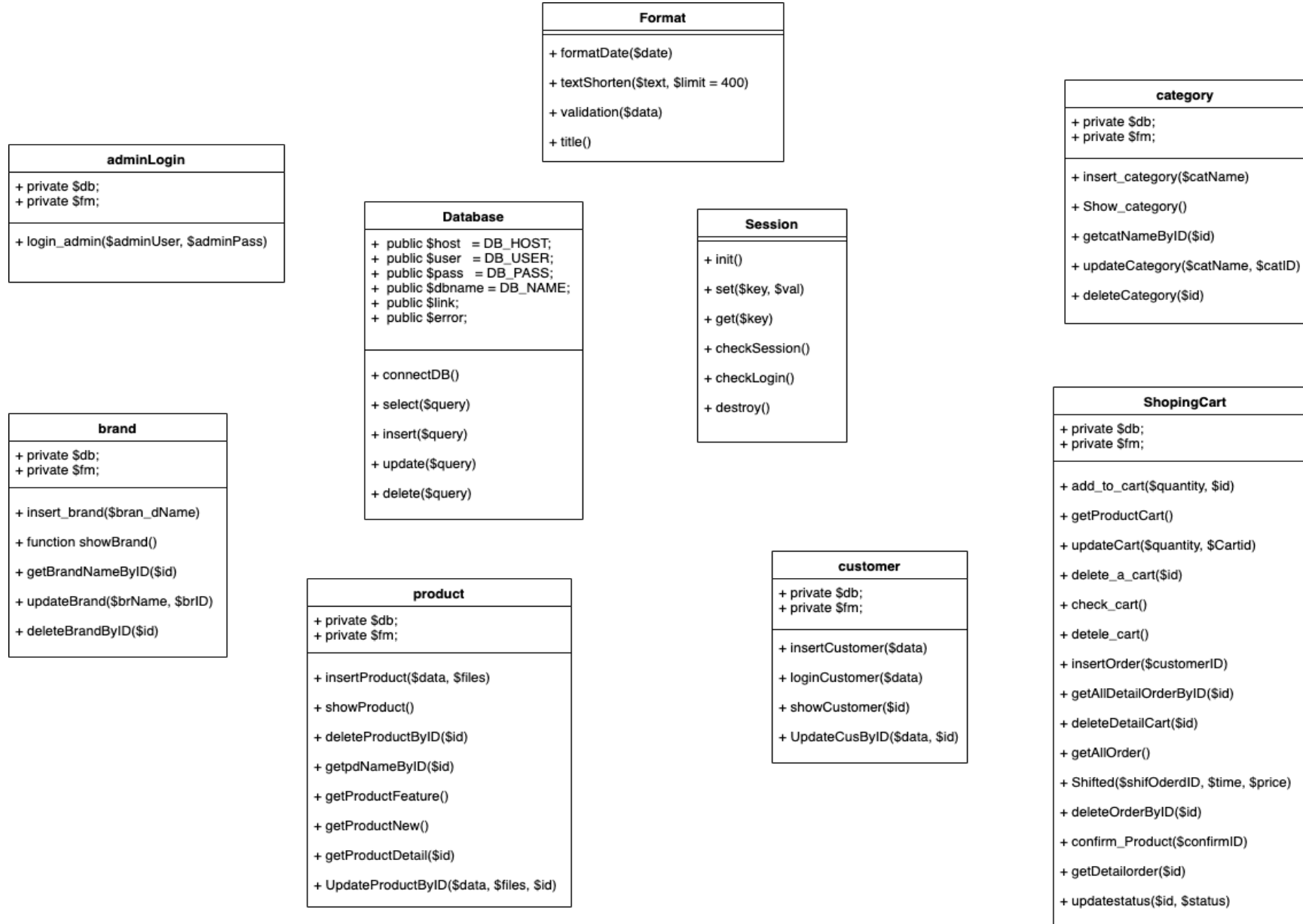
ERD



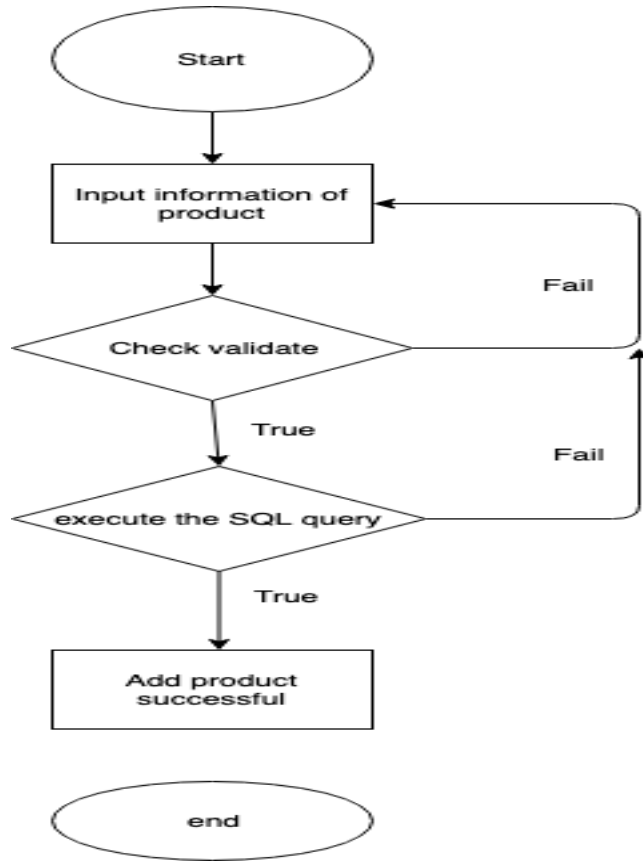
Sitemap



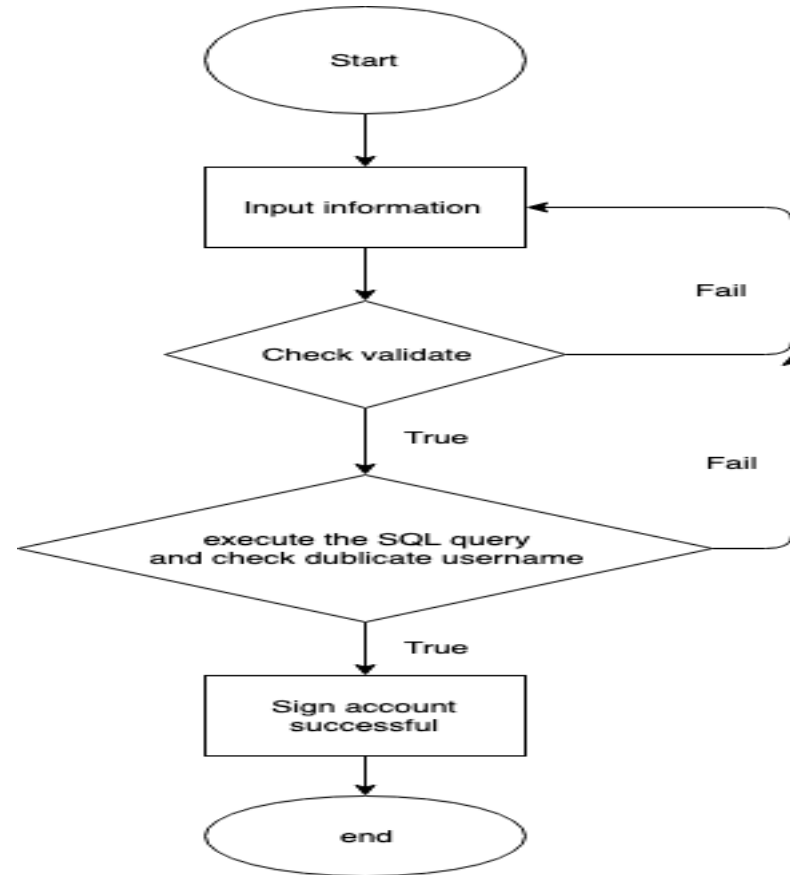
Class Diagram



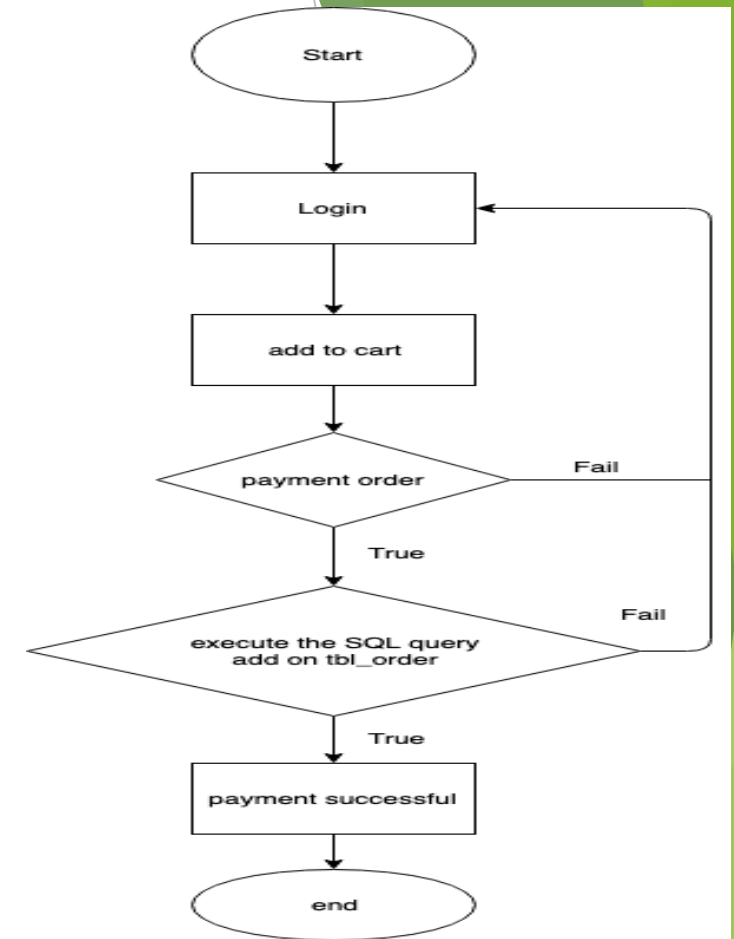
Flowcharts



Flowcharts about Add product

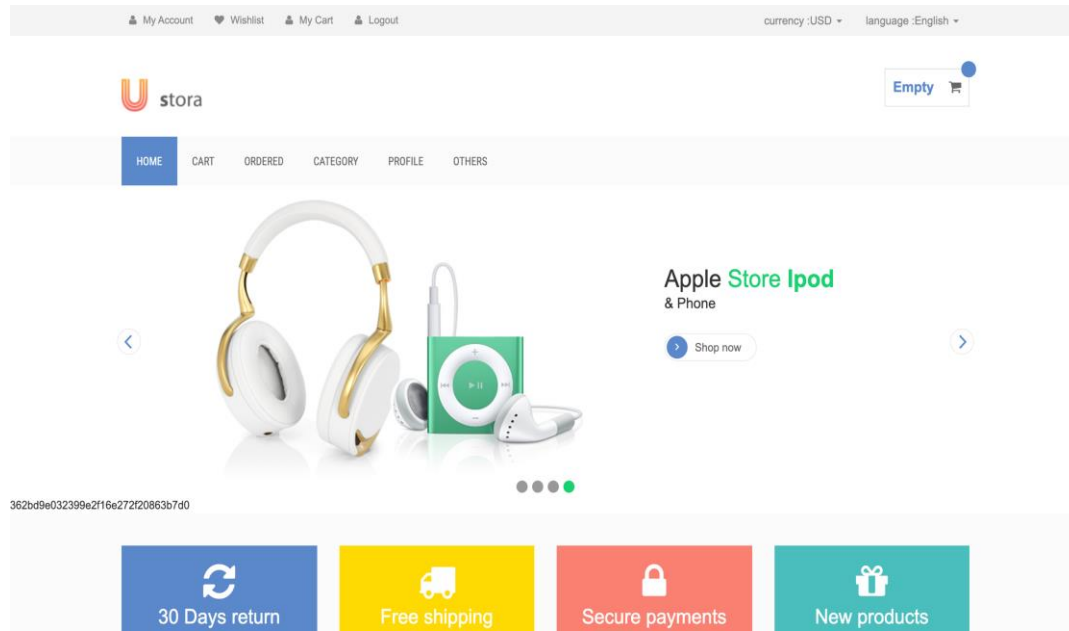


Flowcharts about Sign up

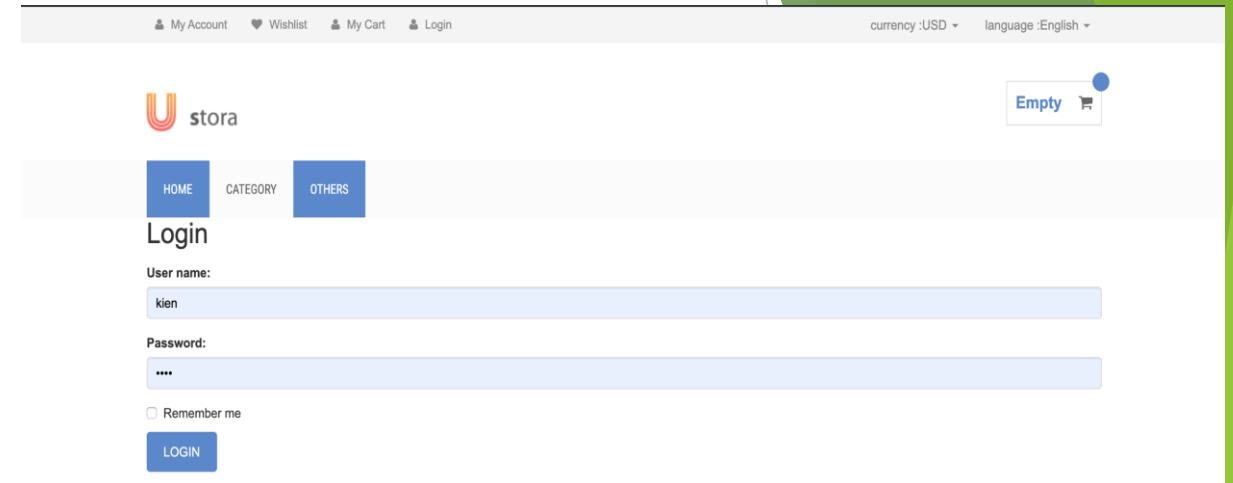


Flowchart payment order

GUI



Homepage



Login

Sign Up

First Name
Enter First Name

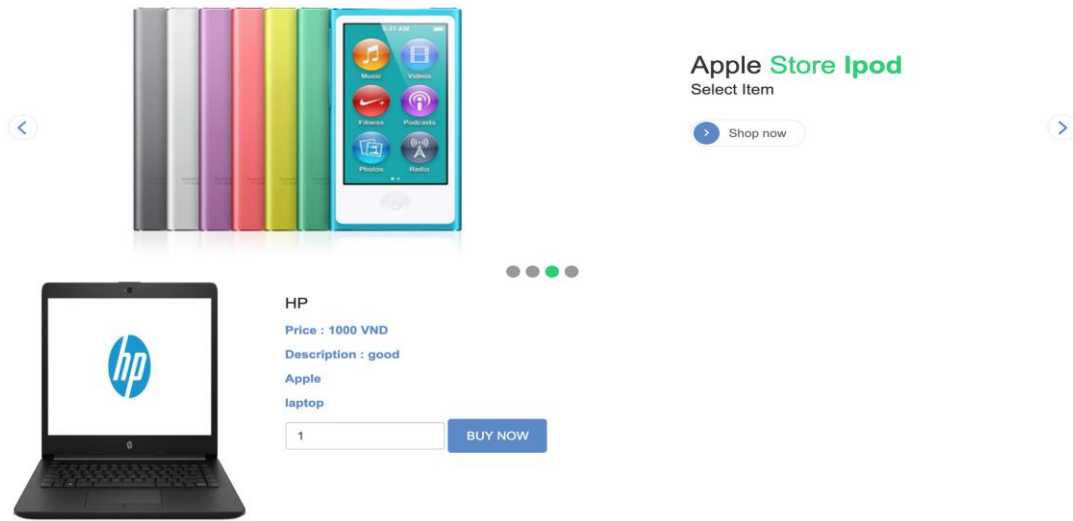
Last name
Enter last name

User name
kien

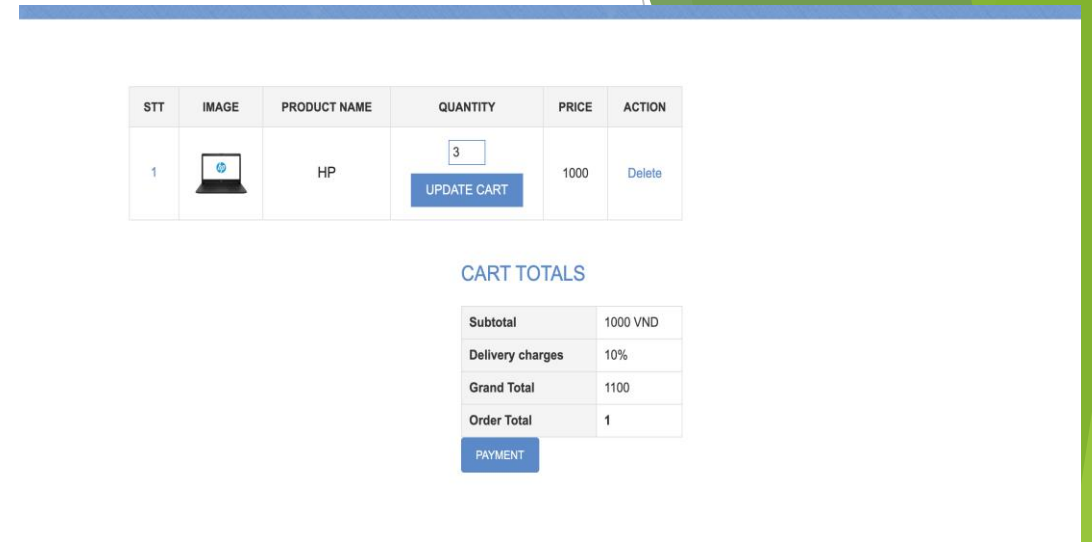
Password

CREATE ACCOUNT

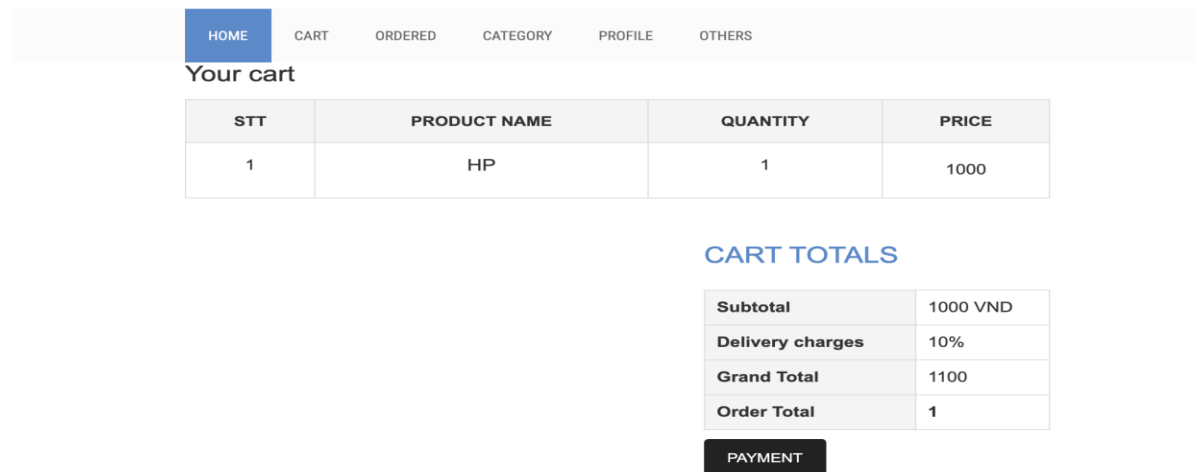
Sign up



Product detail
page

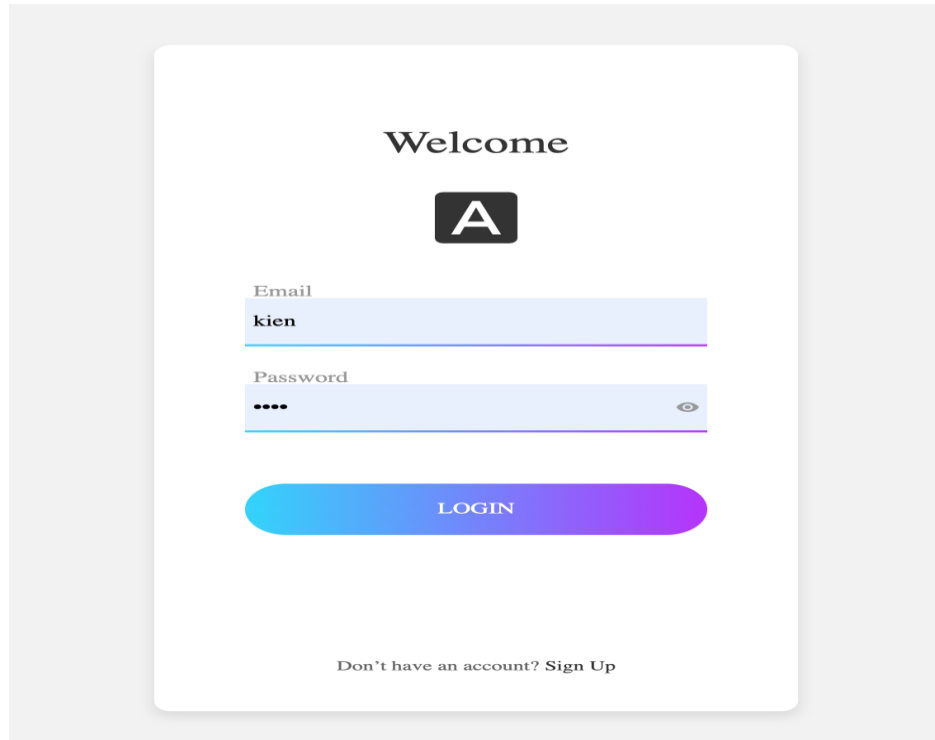


Shopping cart page



Payment page

Admin



A login page with a white background and a light gray border. At the top, it says "Welcome" in a serif font, followed by a black square containing a white letter "A". Below this are two input fields: "Email" with the text "kien" and "Password" with four dots. A blue and purple gradient "LOGIN" button is at the bottom. A link "Don't have an account? Sign Up" is at the very bottom.

Welcome

A

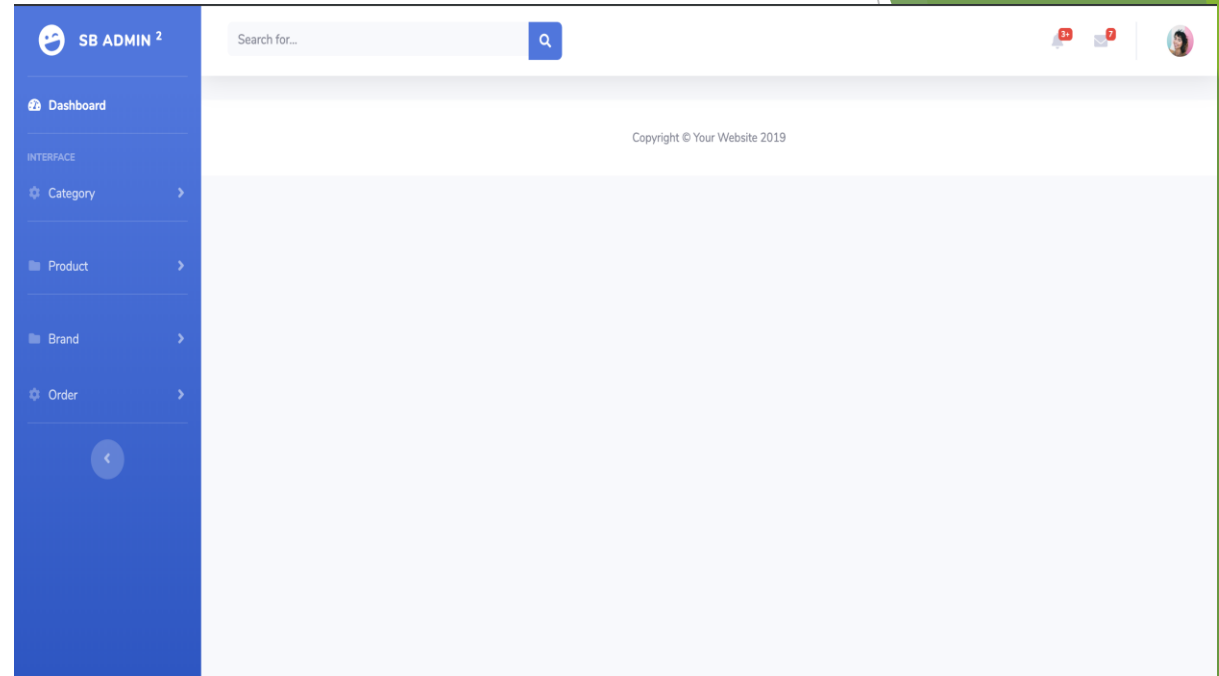
Email
kien

Password
....

LOGIN

Don't have an account? Sign Up

Login admin page



Admin page

SB ADMIN 2

Dashboard

INTERFACE

Category

Product

Brand
















Order

Search for...

5

7

List product

STT	Product name	Category	Brand	Descriptions	Price	Image	Type	Action
1	kien	Apple	laptop	aloalo.....	1900		Non-Feathered	 
2	laptop DELL	Apple	laptop	Trầu bò.....	500		Feathered	 
3	HP	Apple	laptop	good.....	1000		Feathered	 
4	macbook	Apple	laptop	hang chất lượng cao.....	2000		Feathered	 
5	hehe	Apple	laptop	kien.....	100		Non-Feathered	 

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View all
product page

SB ADMIN 2

Dashboard

INTERFACE

Category

Product

Brand

Order

Search for...

5

7

Add Product

Product's name

--Select category--

--Select brand--

Product description

Price

Choose file

Browse

Non-Featured

Copyright © Your Website 2019

Add product
page

SB ADMIN 2

Dashboard

INTERFACE

Category

Product

Brand

Order

Search for...

5

7

Update Product

kien

Apple

laptop

aloalo

1900

Choose file

Browse

Non-Featured

Copyright © Your Website 2019

Update product
page

V. Implementation

1. Selected DBMS.
2. Selected programming language.
3. Elected technologies.
4. Selected IDE.
5. Generated coded DB Diagram
6. Main function

Selected DBMS.

In this project, I use the MySQL database management system

What is MySQL



Selected programing language

I choose PHP for project development

What is php ?



Elected technologies.

In my door project this time I use PHP to develop database projects. I use Mysql to store data for the project.



Selected IDE.

I choose sublime text 3 for project



Generated coded DB Diagram

```
29
30
31 CREATE TABLE `brand` (
32   `brandID` int(11) NOT NULL,
33   `brandName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL
34 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
35
36
37 CREATE TABLE `tblcategory` (
38   `catID` int(11) NOT NULL,
39   `catName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL
40 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
41
42
43
44 CREATE TABLE `tblproduct` (
45   `pID` int(11) NOT NULL,
46   `pName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
47   `catID` int(11) NOT NULL,
48   `brandID` int(11) NOT NULL,
49   `p_Desc` varchar(500) COLLATE utf8mb4_vietnamese_ci NOT NULL,
50   `type` int(11) NOT NULL,
51   `Pprice` int(11) NOT NULL,
52   `pImage` varchar(500) COLLATE utf8mb4_vietnamese_ci NOT NULL
53 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
54
55
56 CREATE TABLE `tbl_admin` (
57   `Idadmin` int(11) NOT NULL,
58   `adminUser` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
59   `adminPass` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
60   `role` int(11) NOT NULL
61 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
62
63 CREATE TABLE `tbl_cart` (
64   `cartID` int(11) NOT NULL,
65   `productID` int(11) NOT NULL,
66   `sID` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
67   `productName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
68   `price` int(11) NOT NULL,
69   `quantity` int(11) NOT NULL,
70   `image` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL
71 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
72
73 CREATE TABLE `tbl_Customer` (
74   `cusID` int(11) NOT NULL,
75   `firstName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
76   `lastName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
77   `userName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
78   `password` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL
79 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
80
```

```
81 CREATE TABLE `tbl_order` (
82   `orID` int(11) NOT NULL,
83   `productID` int(11) NOT NULL,
84   `productName` varchar(255) COLLATE utf8mb4_vietnamese_ci NOT NULL,
85   `customerID` int(11) NOT NULL,
86   `quantity` int(11) NOT NULL,
87   `price` int(11) NOT NULL,
88   `productImage` varchar(500) COLLATE utf8mb4_vietnamese_ci NOT NULL,
89   `dateOrder` timestamp NOT NULL DEFAULT current_timestamp(),
90   `orStatus` int(11) NOT NULL DEFAULT 0
91 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_vietnamese_ci;
92
93 ALTER TABLE `brand`
94   ADD PRIMARY KEY (`brandID`);
95
96 ALTER TABLE `tblcategory`
97   ADD PRIMARY KEY (`catID`);
98
99 ALTER TABLE `tblproduct`
100   ADD PRIMARY KEY (`pID`);
101
102 ALTER TABLE `tbl_admin`
103   ADD PRIMARY KEY (`Idadmin`);
104
105 ALTER TABLE `tbl_cart`
106   ADD PRIMARY KEY (`cartID`);
107
108 ALTER TABLE `tbl_Customer`
109   ADD PRIMARY KEY (`cusID`);
110 dexes for table `tbl_order`
111
112 ALTER TABLE `tbl_order`
113   ADD PRIMARY KEY (`orID`);
114
115 ALTER TABLE `brand`
116   MODIFY `brandID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
117
118 ALTER TABLE `tblcategory`
119   MODIFY `catID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
120
121 ALTER TABLE `tblproduct`
122   MODIFY `pID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=13;
123
124 ALTER TABLE `tbl_admin`
125   MODIFY `Idadmin` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
126
127 ALTER TABLE `tbl_cart`
128   MODIFY `cartID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=73;
129
130 ALTER TABLE `tbl_Customer`
131   MODIFY `cusID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
132
133 ALTER TABLE `tbl_order`
134   MODIFY `orID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=31;
135 COMMIT;
136
```

Main function

STT	IMAGE	PRODUCT NAME	QUANTITY	PRICE	ACTION
1		HP	<input type="text" value="3"/>	1000	Delete
			UPDATE CART		

CART TOTALS

Subtotal	1000 VND
Delivery charges	10%
Grand Total	1100
Order Total	1
PAYMENT	

Add product to shopping cart

HOME

CART

ORDERED

CATEGORY

PROFILE

OTHERS

Your cart

STT	PRODUCT NAME	QUANTITY	PRICE
1	HP	1	1000

CART TOTALS

Subtotal	1000 VND
Delivery charges	10%
Grand Total	1100
Order Total	1
PAYMENT	

Payment order

The main functions such as order payment, adding products to the cart and other functions such as add, delete, update product ...

VI. Test

- Test case
- Test result evaluation
- Feedback

Test login admin.

1. Test case

1.1. Test login admin.

Number	Test title	Test input data	Actual results	Expected results	Status
1	check login admin	Username: <u>kien</u> Password: <u>kien</u>	Logged in successfully	Logged in successfully	Pass
2	check login admin	Username: <u>kien</u> Password: <u>kienasss</u>	Username or password is incorrect	Username or password is incorrect	Pass
3	check login admin	Username: <u>kien</u> Password:	Password account may not be blank	Empty	False

1.2. Test login customer

Test login customer

1.2. Test login customer



Number	Test title	Test input data	Actual results	Expected results	Status
4	check login customer	Username: <u>kien</u> Password: 123	Logged in successfully	Logged in successfully	Pass
5	check login customer	Username: <u>kien</u> Password: <u>kienasss</u>	Username or password is incorrect	Username or password is incorrect	Pass
6	check login customer	Username: <u>kien</u> Password:	Password account may not be blank	Empty	False



1.3. Test logout customer

Test add, delete, update product.

1.4. Test add, delete, update product.

Number	Test title	Test input data	Actual results	Expected results	Status
9	Add product	Product name: laptop Category: laptop Brand: Apple Product description: good Images: images Type: Featured	Insert successful	Insert successful	Pass
10	Add product	Product name: Category: Brand: Apple Product description: good Images: images Type: Featured	Fields must be not empty	Fields must be not empty	Pass
11	Delete product	Are you sure delete ? Ok	Delete successful	Delete successful	Pass
12	Delete product	Are you sure delete ? No	Not delete	Not delete	Pass
13	Update product	Product name: laptop Category: laptop Brand: Dell Product	Update successful	Update successful	Pass

Test add, delete, update category

1.5. Test add, delete, update category

Number	Test title	Test input data	Actual results	Expected results	Status
15	Add category	Category name: laptop	Insert successful	Insert successful	Pass
16	Add category	category name:	Fields must be not empty	Fields must be not empty	Pass
17	Delete category	Are you sure <u>delete</u> ? Ok	Delete successful	Delete successful	Pass
18	Delete category	Are you sure <u>delete</u> ? No	Not delete	Not delete	Pass
19	Update category	Category name: Samsung	Update successful	Update successful	Pass
20	Update category	Product name:	Fields must be not empty	Fields must be not empty	Pass

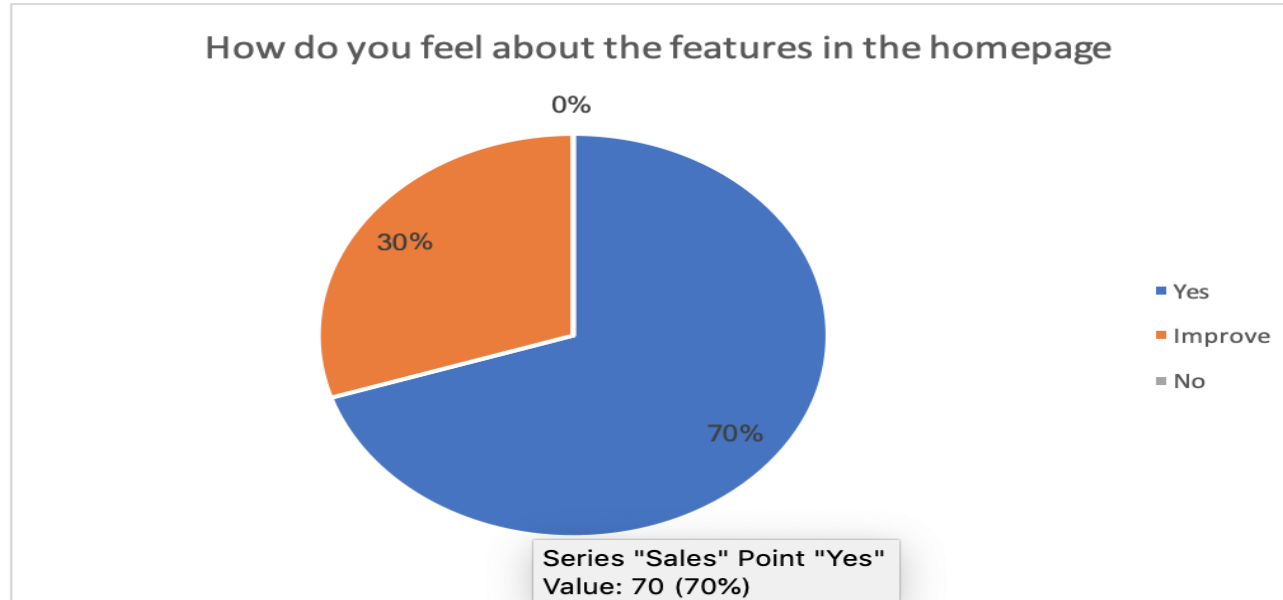
Test result evaluation

2. Test result evaluation

<u>Performer test</u>	Test passed	Test failed	Percentage passed
31	29	2	93%

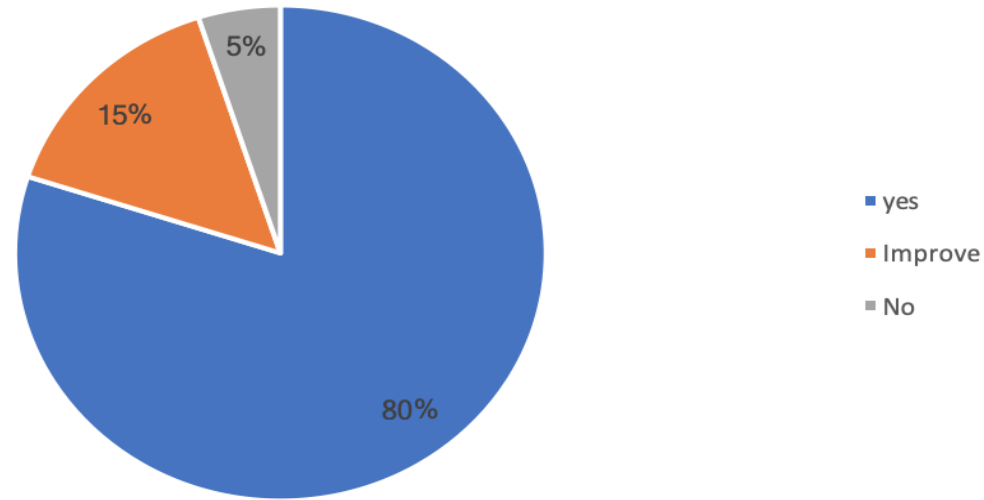
- In my program. The features in the program run very accurately.
- ❖ **Need to improve**
 - Pass the test results. I found that my program needs to improve customer management functions, improve delete order function, and improve customer function to get customer password back when they forget password.
- ❖ **Test result evaluations**
 - After the results have been checked. I evaluate that through the above test results, I find that my test functions work quite correctly. My program is working fine. Evaluation results show that the cases I put in place to check are passed. Through this I propose that the result of the program of operation is quite good.
 - After 31 test activities. I find that the actual results with the experimental results match. It is quite accurate, so I found that the requirements of the users who set up my program were very good. Nothing wrong. The actual results and experimental results have shown that. Did it evaluate my program to work well? Thereby I teach that my program works quite well and accurately.

3. Feedback



- Result of evaluation
 - ✓ During their use 70% show that the program is easy to use and works quite well. but in that case, 30% said my program needed a little extra development for some These functions should be added as customers can pay by visa, e-wallet ...
- Improve
 - ✓ through user reviews. I find that in my home page my features need to be improved eg customers can get their password back with gmail when they forget the password.
 - ❖ Login and Sign up
- Through the evaluation results of 5 people who used me, the following chart is shown.

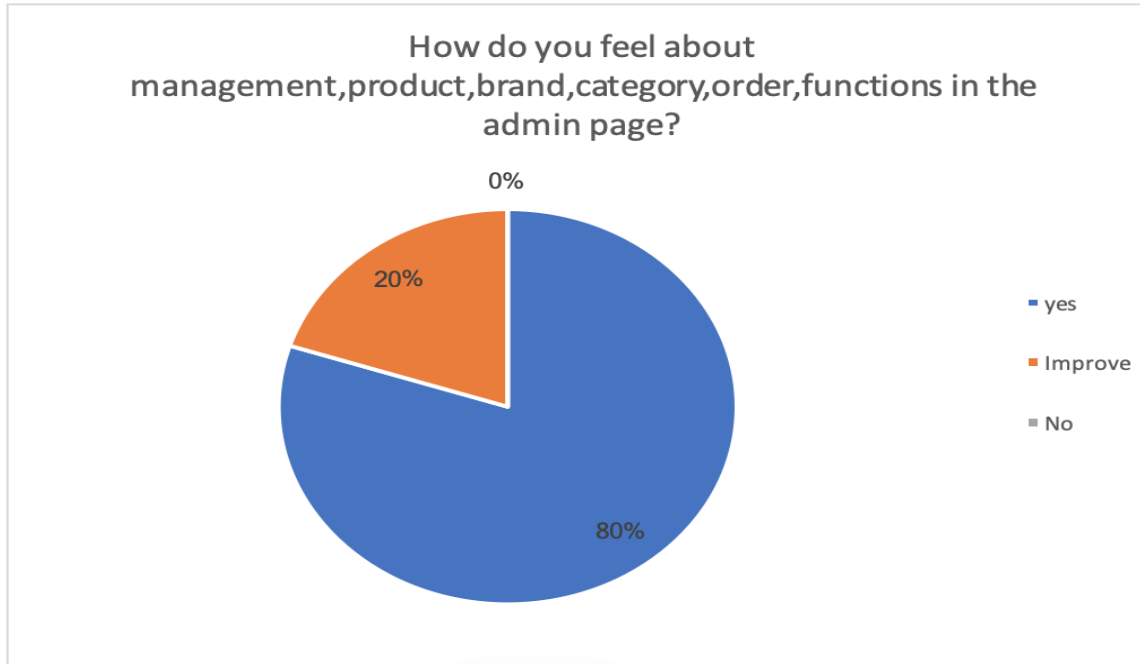
How do you feel about the login and Sign up features of the program?



- **Chart Area**
Result of evaluation
 - ✓ through the survey results as shown in the chart. 80% of users work very well, 15% think it needs improvement, requires users to add characters to the password to increase security. 5% are not satisfied with my program.
- **Improve**
 - ✓ Through evaluation, I realized how my program needs to improve in some places. When registering users must force them to gmail to authenticate

❖ Management function in admin

- Through the 5 people who used my program they gave the following assessment.

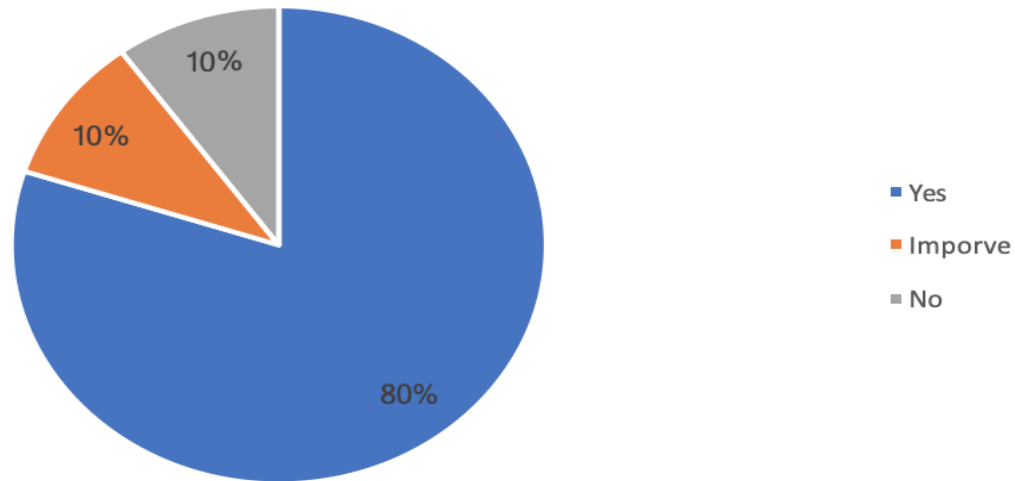


- Result of evaluation

Chart Area

- ✓ Through the process of using 80%, I think my program works very well, 20% said that it needed to improve the functions, such as checking more conditions when update product about image.
- Improve
- ✓ through my program reviews. I found it to be quite good, but it needed to improve some functions like being able to add more images to a product.

How do you feel about shopping cart?



❖ shopping cart

- Result of evaluation

- ✓ 80% find that my shopping cart feature is quite good and they love it

- Improve

- ✓ 10% said they need to improve shopping cart feature, mainly improve when shopping is completed have to return to the page to see the orders have been paid.

- ✓ The remaining 10% are not interested in this feature of me.

Feedback evaluation

4.Feedback evaluation.

I have sent questions to some of my clients to evaluate my project so that I can get some results to improve this project. I am aware of my project quite well, all the functions work correctly. Most of the customers who rated my project were relatively good about me getting some compliments from guests. In addition, there are some customers who need me to improve for this project, so I can add more products at the admin page, customers can pay by bank card ... of which some I think I should add input checking functions to increase the security of users. Through the above reviews, I have drawn some criteria that need to be improved for the project, which is very necessary for this product, the improvements I mentioned above.

VII. Evaluation

I have reviewed and evaluated and recorded customer reviews. The first thing I need to do is immediately fix all but reviews and requests for improvement on my door project as my client reviews. Next I will improve some features like partnering with a third party to I can let users pay by bank card ... not only that, but I also work with a number of partners to post ads to earn more income and to expand the website. I know that to do it. This takes a lot of time, but I will try to improve it as soon as possible, so I think the website is giving customers a pretty good experience.

VIII. Future work

For this project I will definitely improve it in the near future. First I will gather reviews and look for more investments so that they can build a stronger website. In addition, I will look for developers to hire them to optimize my website and above all, build new features to keep up with today's technology trends. Develop new features in the future.

IX. Conclusion

For this project I will definitely improve it in the near future. First I will gather reviews and look for more investments so that they can build a stronger website. In addition, I will look for developers to hire them to optimize my website and above all, build new features to keep up with today's technology trends. Develop new features in the future.

THE END