



TUNKU ABDUL RAHMAN UNIVERSITY COLLEGE

FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

Assignment Title:

Shirt E-Commerce Website

AMIT3094 GUI and Web Application Programming
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Programme : DIPLOMA IN INFORMATION TECHNOLOGY

Tutorial Group : G15

Lecturer/Tutor's Name : JIAN LIAM YEE

Date of submission : 16/4/2022

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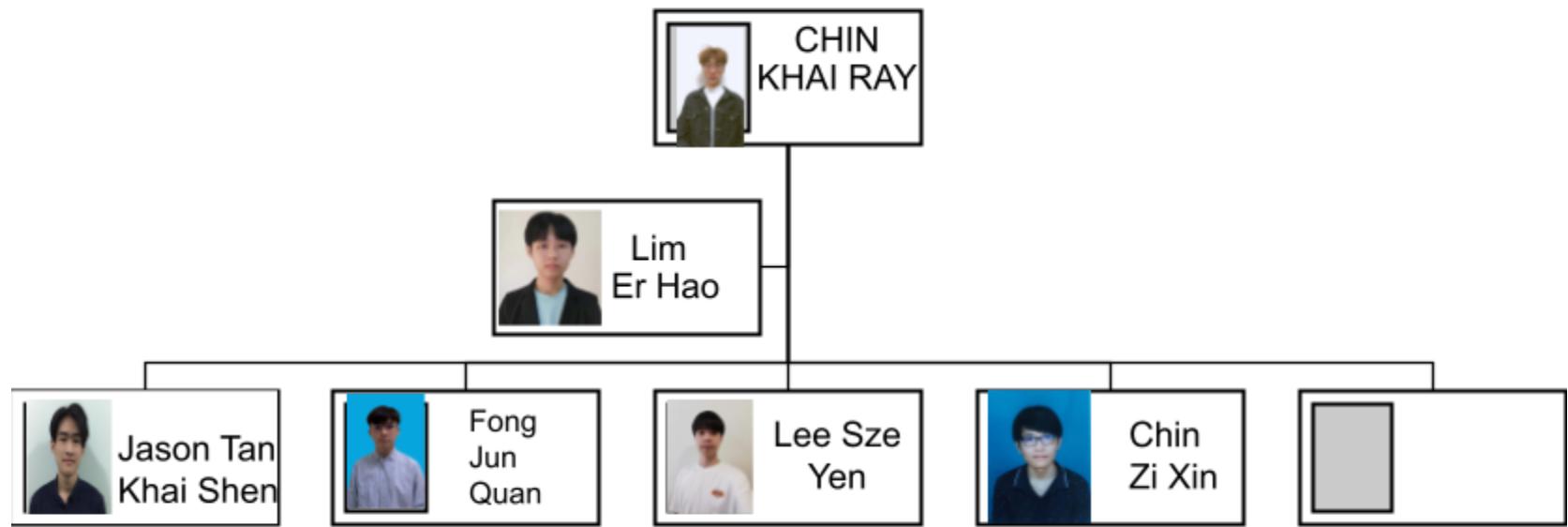
I. Declaration

We confirm that we have read and shall comply with all the terms and conditions of TAR University College's plagiarism policy.

We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is my own properly derived work.

Signature:	<i>Chin</i>	<i>Hao</i>	<i>JR</i>	<i>Xin</i>	<i>Jason</i>	<i>jun</i>
Name:	CHIN KHAI RAY	Lim Er Hao	Lee Sze Yen	Chin Zi Xin	Jason Tan Khai Shen	Fong Jun Quan
Date:	16/4/2022	16/4/2022	16/4/2022	16/4/2022	16/4/2022	16/4/2022

II. Assignment Team Organization



III. Module Handle by Each Team Member

No	Modules Names	CHIN KHAI RAY	LIM ER HAO	LEE SZE YEN	Chin Zi Xin	Jason Tan Khai Shen	Fong Jun Quan
1.	Customer Registration and Login module	✓					
2.	Customer View product and Profile			✓			
3.	Customer Order module		✓				
4.	Customer Payment module					✓	
5.	Customer Search product by product name or product id				✓		
6.	Customer Rating and comments on product and services	✓					
7.	Customer Check order status and Check order history					✓	
8.	Register New staff (only admin/manag	✓					

	er use) and Login module					
9.	manager/admin Maintain staffs (RBAC)			<input checked="" type="checkbox"/>		
10.	staff/manager Maintain product (RBAC)			<input checked="" type="checkbox"/>		
11.	staff/manager View customer records (apply sorting and RBAC)					<input checked="" type="checkbox"/>
12.	staff/manager View sales records (apply sorting and RBAC)					<input checked="" type="checkbox"/>
13.	staff/manager Generate report (e.g. sale report) suggest 3 reports suitable for your business.	<input checked="" type="checkbox"/>				
14.	staff/manager Search by Criteria (Search sales record, product, staff, order and etc.)			<input checked="" type="checkbox"/>		
15.	staff/manager Update order status – 3 status packaging,				<input checked="" type="checkbox"/>	

	shipping, delivered						
16.	staff/manager View rating and comments and reply comment and provide feedback			<input checked="" type="checkbox"/>			
17.	staff/manager View chart		<input checked="" type="checkbox"/>				

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Query

```
CREATE TABLE staff (
    staff_id int NOT NULL generated always as identity(Start with 1, Increment by 1),
    name varchar(100),
    password varchar(100),
    email varchar(100),
    phone_num varchar(100),
    image varchar(100),
    PRIMARY KEY (staff_id)
);
```

```
CREATE TABLE Products (
    product_id int NOT NULL generated always as identity(Start with 1, Increment by 1),
    product_title varchar(100),
    product_date_start varchar(100),
    product_image varchar(100),
    product_stock int,
    product_amount numeric(6,2),
    product_size varchar(100),
    product_categories varchar(100),
    PRIMARY KEY (product_id)
);
```

```
CREATE TABLE Users (
    user_id int NOT NULL generated always as identity(Start with 1, Increment by 1),
    name varchar(100),
    password varchar(100),
    email varchar(100),
    phone_num varchar(100),
    image varchar(100),
    PRIMARY KEY (user_id)
);
```

```
CREATE TABLE Payment (
    payment_id int NOT NULL generated always as identity(Start with 1, Increment by 1),
    payment_total numeric(6,2),
    payment_method varchar(100),
    payment_address varchar(100),
    shipping varchar(100),
    payment_date varchar(100),
    payment_status varchar(100),
    PRIMARY KEY (payment_id)
);
```

```
CREATE TABLE Cart (
    cart_id int,
    product_id int,
    payment_id int,
    user_id int,
    quantity int,
    price numeric(6,2),
    orderSize varchar(10),
    status varchar(50),
    PRIMARY KEY (cart_id, product_id, user_id, payment_id),
    FOREIGN KEY (product_id) REFERENCES Products(product_id),
    FOREIGN KEY (user_id) REFERENCES Users(user_id),
    FOREIGN KEY (payment_id) REFERENCES Payment(payment_id)
);
```

```
CREATE TABLE Notification (
    notification_id int NOT NULL generated always as identity(Start with 1, Increment by 1),
    staff_id int,
    message varchar(100),
    status varchar(100),
    sender varchar(100),
    PRIMARY KEY (notification_id),
    FOREIGN KEY (staff_id) REFERENCES staff(staff_id)
);
```

```
CREATE TABLE Comment (
    comment_id int NOT NULL generated always as identity(Start with 1, Increment by 1),
    user_id int,
    ratings int,
    comment_about varchar(100),
    reviews varchar(100),
    PRIMARY KEY (comment_id),
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
);
```

```
CREATE TABLE Notification_detail (
    notification_id int,
    user_id int,
    notification_date varchar(100),
    notification_time varchar(100),
    PRIMARY KEY (notification_id, user_id),
    FOREIGN KEY (notification_id) REFERENCES Notification(notification_id),
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
);
```

```
INSERT INTO Staff (name,password,email,phone_num,image)VALUES ('Jerald', 'nbuser', 'Jerald@gmail.com', '018-2055127', 'lee.jpg');
```

```
INSERT INTO Staff (name,password,email,phone_num,image)VALUES ('jingcheng', 'nbuser', 'jc@gmail.com', '017-5066725', 'lim.jpg');
```

```
INSERT INTO Staff (name,password,email,phone_num,image)VALUES ('hanesh', 'nbuser', 'hns@gmail.com', '018-9055153', 'hns.jpg');
```

```
INSERT INTO Users (name,password,email,phone_num,image) VALUES ('erhao', 'erhao', 'erhao@gmail.com', '011-12925987', 'hao.jpg');
```

```
INSERT INTO Users (name,password,email,phone_num,image) VALUES ('Jerald', 'jerald', 'Jerald@gmail.com', '018-2055127', 'lee.jpg');
```

```
INSERT INTO Users (name,password,email,phone_num,image) VALUES ('thanesh', 'thanesh', 'thanesh@gmail.com', '018-8023577', 'thanesh.jpg');
```

```
INSERT INTO Products  
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('Tanjirou', '04/06/2022', 'kimet2.jpg', 100, 34.50, 'M,L,XL','Popular');
```

```
INSERT INTO Products  
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('Kakasi', '03/05/2022', 'popular2.jpg', 88, 27.50, 'M,L,XL,XXL','New Arrival');
```

```
INSERT INTO Products  
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('Zero Two', '04/06/2022', 'popular4.jpg', 66, 67, 'M,L,XL','Limited Offer');
```

```
INSERT INTO Products  
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('Nezuko', '04/06/2022', 'new.jpg', 100, 34.50, 'M,L,XL,XXL','Popular');
```

```
INSERT INTO Products  
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('Shinobu', '03/05/2022', 'new2.jpg', 88, 27.50, 'M,L,XL','New Arrival');
```

```
INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('Mitsuri', '04/06/2022', 'new3.jpg', 66, 67, 'M,L,XL,XXL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('A', '04/06/2022', 'popular.jpg', 100, 34.50, 'M,L,XL','Popular');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('B', '03/05/2022', 'popular3.jpg', 88, 27.50, 'M,L,XL','New Arrival');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('C', '04/06/2022', 'popular5.jpg', 66, 67, 'M,L,XL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('D', '04/06/2022', 'popular6.jpg', 66, 67, 'M,L,XL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('E', '04/06/2022', 'popular7.jpg', 66, 67, 'M,L,XL,XXL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('F', '04/06/2022', 't-shirt2.jpg', 66, 67, 'M,L,XL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('G', '04/06/2022', 't-shirt3.jpg', 66, 67, 'M,L,XL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('H', '04/06/2022', 't-shirt4.jpg', 66, 67, 'M,L,XL','Limited Offer');

INSERT INTO Products
(product_title,product_date_start,product_image,product_stock,product_amount,product_size,product_categories) VALUES ('I', '04/06/2022', 'kimet3.jpg', 66, 67, 'M,L,XL','Limited Offer');
```

```
INSERT INTO Payment  
(payment_total,payment_method,payment_address,shipping,payment_status,payment_date) VALUES  
(100.50, 'Credit card', 'Leaf-Village 53300 Kuala Lumpur', 'GLS','delivered','11/04/2022 02:42:44');
```

```
INSERT INTO Payment  
(payment_total,payment_method,payment_address,shipping,payment_status,payment_date) VALUES  
(235, 'COD', 'Bukit bintang', 'DHL','delivered','26/02/2022 02:42:44');
```

```
INSERT INTO Payment  
(payment_total,payment_method,payment_address,shipping,payment_status,payment_date) VALUES  
(55, 'Credit card', 'Singapore', 'GLS','delivered','16/10/2022 02:42:44');
```

```
INSERT INTO Cart (cart_id, product_id, payment_id, user_id, quantity ,price, orderSize, status) VALUES  
(1, 1, 1, 1, 2, 34.50, 'L', 'ordered');
```

```
INSERT INTO Cart (cart_id, product_id, payment_id, user_id, quantity ,price, orderSize, status) VALUES  
(2, 2, 1, 1, 2, 34.50, 'L', 'ordered');
```

```
INSERT INTO Cart (cart_id, product_id, payment_id, user_id, quantity ,price, orderSize, status) VALUES  
(3, 3, 2, 1, 2, 34.50, 'L', 'ordered');
```

```
INSERT INTO Notification (staff_id,message,status,sender) VALUES (1, 'Message here', 'Succeed',  
'Staff');
```

```
INSERT INTO Notification (staff_id,message,status,sender) VALUES (1, 'Message here', 'Succeed',  
'Staff');
```

```
INSERT INTO Notification (staff_id,message,status,sender) VALUES (2, 'Message here2', 'Succeed',  
'Staff');
```

```
INSERT INTO Comment (user_id, ratings,comment_about,reviews) VALUES (1, 4, 'Tanjirou', 'Good  
Stuff');
```

```
INSERT INTO Comment (user_id, ratings,comment_about,reviews) VALUES (1, 4, 'abc', 'Good Stuff111');
```

```
INSERT INTO Comment (user_id, ratings,comment_about,reviews) VALUES (2, 2, 'hahaha', 'Good Stuff2');
```

```
INSERT INTO Notification_detail (notification_id,user_id,notification_date,notification_time) VALUES (1,1, '4/6/2022', '10:35');
```

```
INSERT INTO Notification_detail (notification_id,user_id,notification_date,notification_time) VALUES (2,1, '5/8/2022', '11:35');
```

```
INSERT INTO Notification_detail (notification_id,user_id,notification_date,notification_time) VALUES (1,2, '16/9/2022', '12:35');
```

1. Introduction

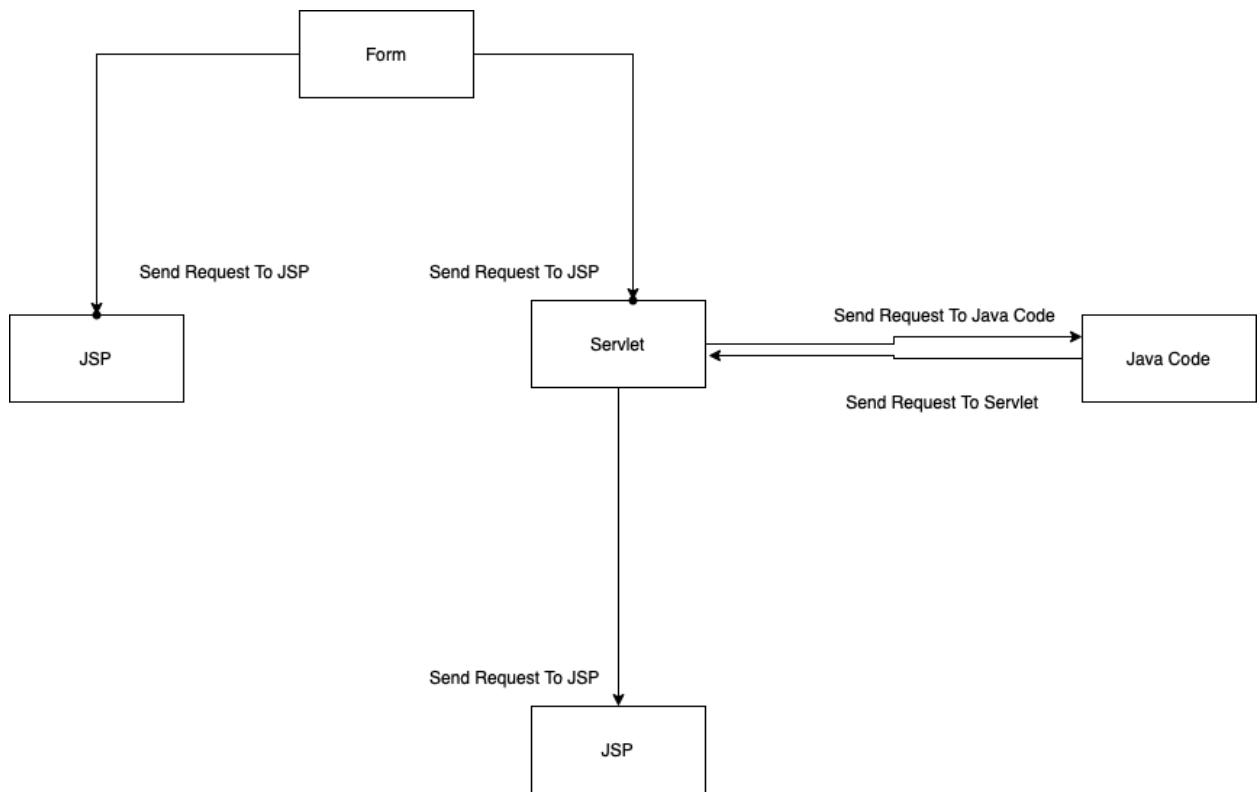
For our group assignment, we've decided to design an e-commerce website. The name of our website is Peace. We are a website which is dedicated to sell clothing. By following the instruction given by the assignment question, our group has designed 17 modules which each of us handle at least 3 modules. The website we created is a responsive website which responds to every decision the user made. Besides that, We also created a database which allows us to update, retrieve, add and delete data. For example, when a user first uses our website, they will have to register for an account which will be saved into the database so it can be retrieved in the future. Other than that, the user can also add the product into the cart and be able to see the item in the cart even though the user revisits the website next time. Lastly, we created our website through observing other e-commerce websites such as Shopee and Lazada.

The purpose of this website is to let users buy clothing on our website. As mentioned above, it is an e-commerce website like Shopee and Lazada. Users on our website can be separated into 3 types which are admin, staff and customers.

There are a lot of functions on our website. Let's start by logging in and registering. First-time customers are able to register for an account where the account details will be saved into the database. After that, customers can log into the website by inserting the same account details that used to register the account. If the user typed wrong username or password which do not match with the one in the database, the log in will be rejected. Next, add to cart function. Customers can add products to carts so they can view them later on. Next, the payment function. Users can pay for their product through the checkout button in the cart page. After clicking the checkout button, users will be directed to payment which requires them to fill in an address, shipping method and payment method. Next, the history function. Users can view the history page. The history page contains 2 sections which are history items and purchased items which are still in the process of shipping or packaging. Next, on the product page we have functions which allow users to review and comment and also search for the product through search.

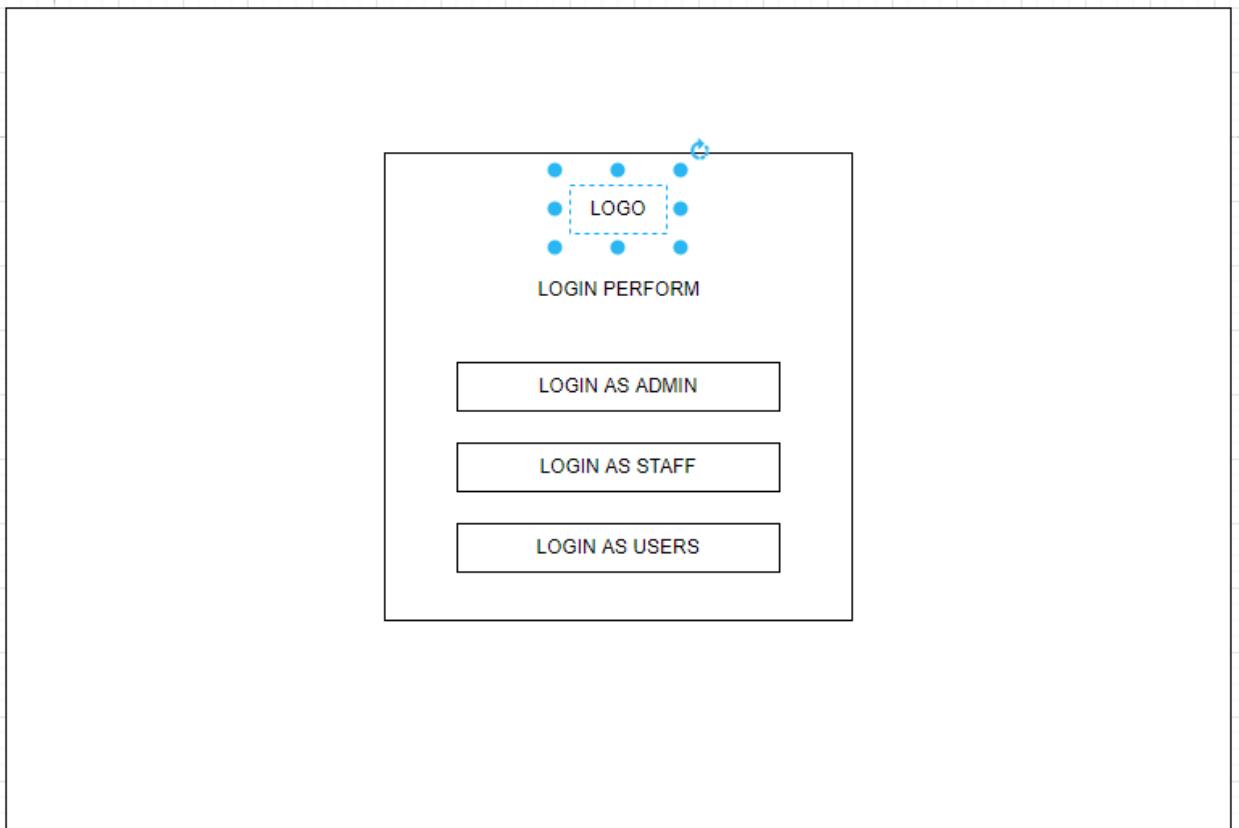
Next is the function only used by admin and staff. Admin and staff also have their own account , so they have to login into the account to access these functions. We did functions that only admin and staff have access to certain pages such as CRUD table and view report. Regarding the CRUD table , we allow staff to edit the customer purchased product status and so on.

2. Application MVC Architecture



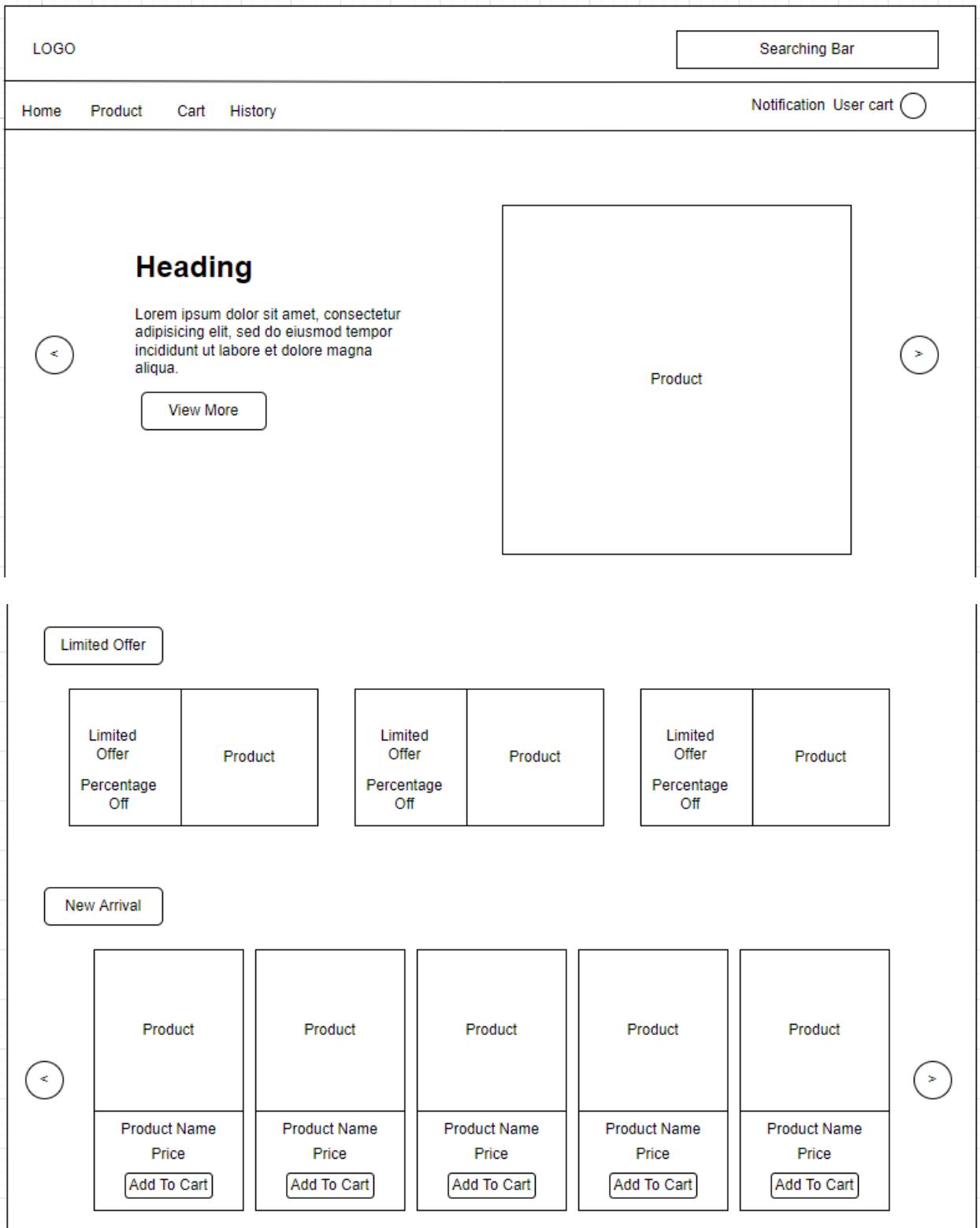
3. User Interface Design

Login Page



Our Login page has three login which is login as admin and staff. Admin and staff accounts are created in the backend so the user doesn't have access to it. Users can login as users and register inside if they do not own an account.

Home Page



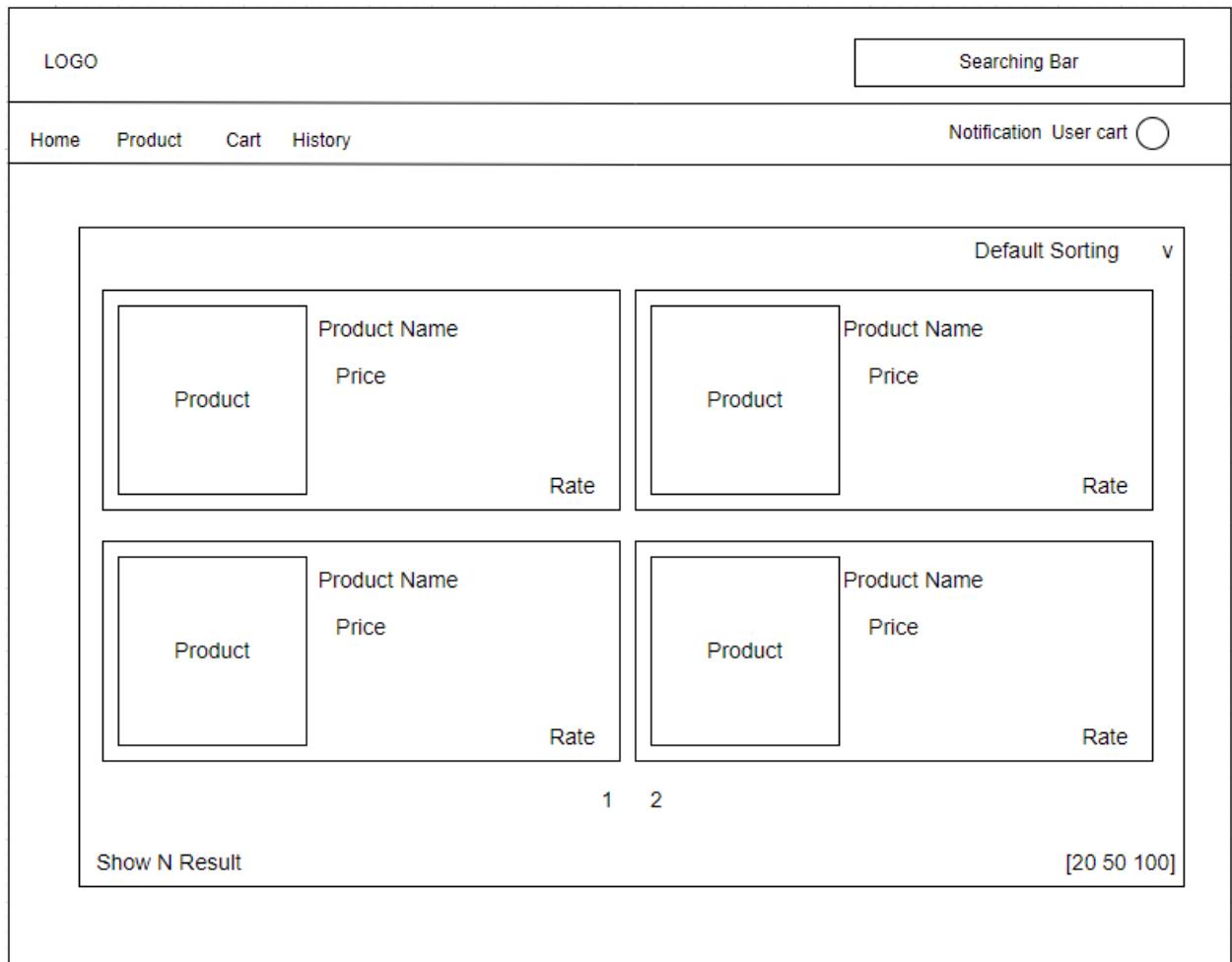
The wireframe illustrates the layout of a website homepage:

- Popular Shirt**: A section containing three product cards, each labeled "Product".
- User Comments**: A section containing three user comment cards, each featuring a "User profile" icon and fields for "Comment", "User name", and "Rating".
- Contact Us**: A section with the heading "Contact Us" and the sub-instruction "Get In Touch With Us For Any Issues Or Updates". It includes a "Enter Your Email" input field and a "Submit" button.
- LOGO**: A placeholder for the website logo.
- Links**: A menu with items: Home, Product, Liked, Cart, and History.
- Contact Us**: A section with three entries, each consisting of a logo icon and a label: Shop Name, Phone Number, and Web Link.

Our homepage design is really simple. At the top of the header , there is a searching bar on the right and our website logo at the left. Below the logo is our Home, Product,Cart ,History button. Next, below the searching bar is the notification button and user profile.

The content of our homepage consists of some of the products we sell, products that are on sale and so on. At the bottom of the page, we have a footer which has our contact information such as phone number and web link.

Product Page



On our product page , users can view all the products in our store. Users can see the product name, product image and product price at the page and more details will be shown when clicked on the product. Besides that, there is also a rate button which allows users to rate the products.

Product Details

LOGO

Searching Bar

Home Product Cart History Notification User cart

Product

Product Name

Price

Add To Cart

Please Rate the Wearing Here

1. Your Overall Experience With This Wearing

Rating

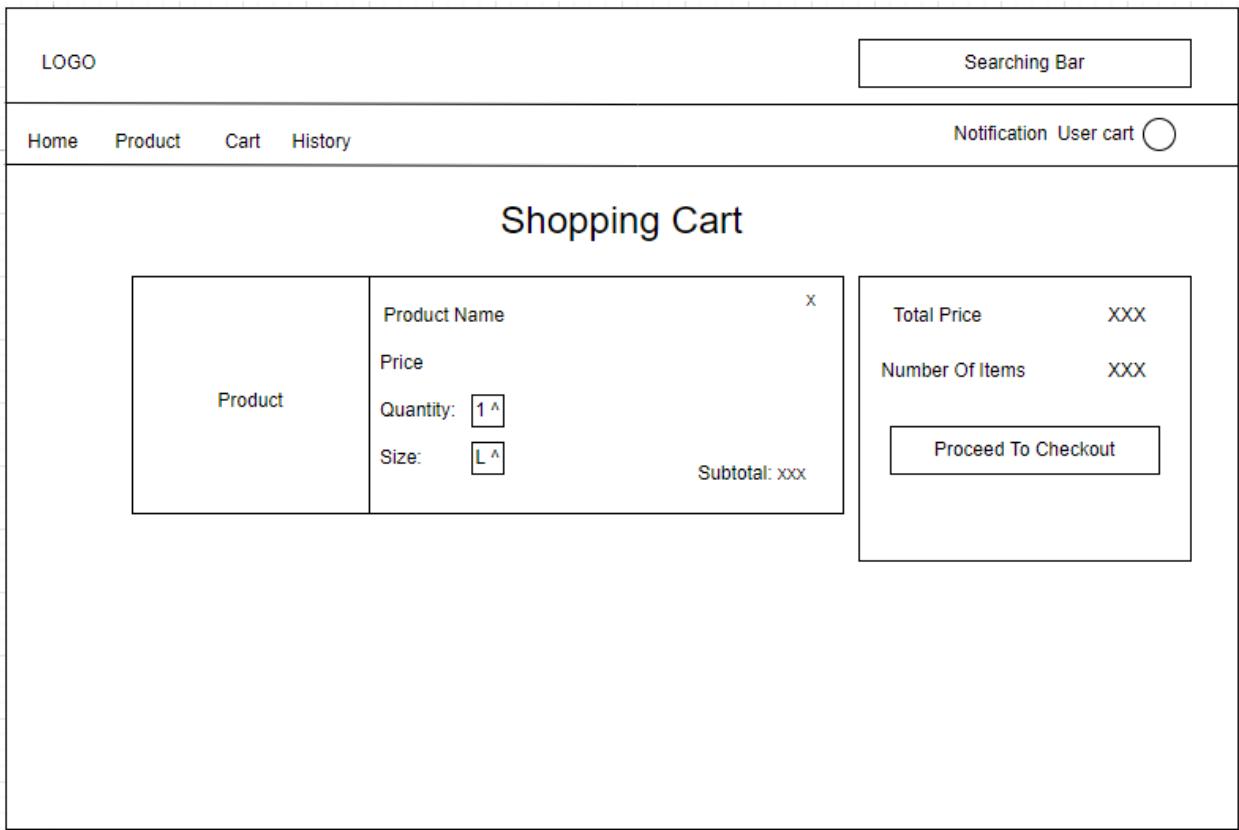
2. Any Other Suggestions For The Wearing

Suggestions

Submit Your Review

In this page, users can see all the product details such as product name , description. Users can choose the size they want and add the item into the cart. Besides that, users can also submit their review about the product.

Cart Page



In the cart page, users can see all the products they added into the cart. Besides that, they can change the size and quantity as they wish. Next, they can also remove the item from the cart. Lastly, user can proceed to payment page to pay for the product by clicking on the Proceed To Checkout Button

Payment Page

<- Go Back					
Information City <input type="text"/> Zip Code <input type="text"/> Address <input type="text"/> State <input type="text"/> Country <input type="text"/>	Order summary Billing address: User Name POS 7S8/PBD 112, PARIT BAKAR DARAT 84000, MUAR, JOHOR 84000, User Name Johor Malaysia Your order <table border="1"><thead><tr><th>Products</th></tr></thead><tbody><tr><td>Shipping RMXX</td></tr><tr><td>TAX RMXX</td></tr><tr><td>Total RMXX</td></tr></tbody></table> Payment Please choose your desired payment method. Credit card option will redirect you to the payment gateway. <input type="checkbox"/> I hereby confirm that the information that I have provided is correct and that I accept the TERMS AND CONDITIONS <input type="button" value="Cash On Delivery"/> <input type="button" value="Pay with Credit Card"/>	Products	Shipping RMXX	TAX RMXX	Total RMXX
Products					
Shipping RMXX					
TAX RMXX					
Total RMXX					

At the payment page, User will have to fill in their address information, choose which shipping method they want, payment method and accept the terms & conditions

History Page

The screenshot displays a user interface for a history page. At the top, there is a header bar with a logo on the left, a search bar on the right, and navigation links for Home, Product, Cart, and History. To the right of the navigation links are notification and user cart icons. Below the header, the main content area is divided into two sections: "History Items" and "Purchased Items". Each section contains a table with a single row. The first column of each table is labeled "Product". The second column contains product details: "Product Name", "Price", "Quantity : X", "Date: DAY, XX/XX/XXXX XX:XX:XX", and "Status: Delivered" for the first section, and "Status: Shipping" for the second section.

Product	Product Name Price Quantity : X Date: DAY, XX/XX/XXXX XX:XX:XX Status: Delivered
---------	--

Product	Product Name Price Quantity : X Date: DAY, XX/XX/XXXX XX:XX:XX Status: Shipping
---------	---

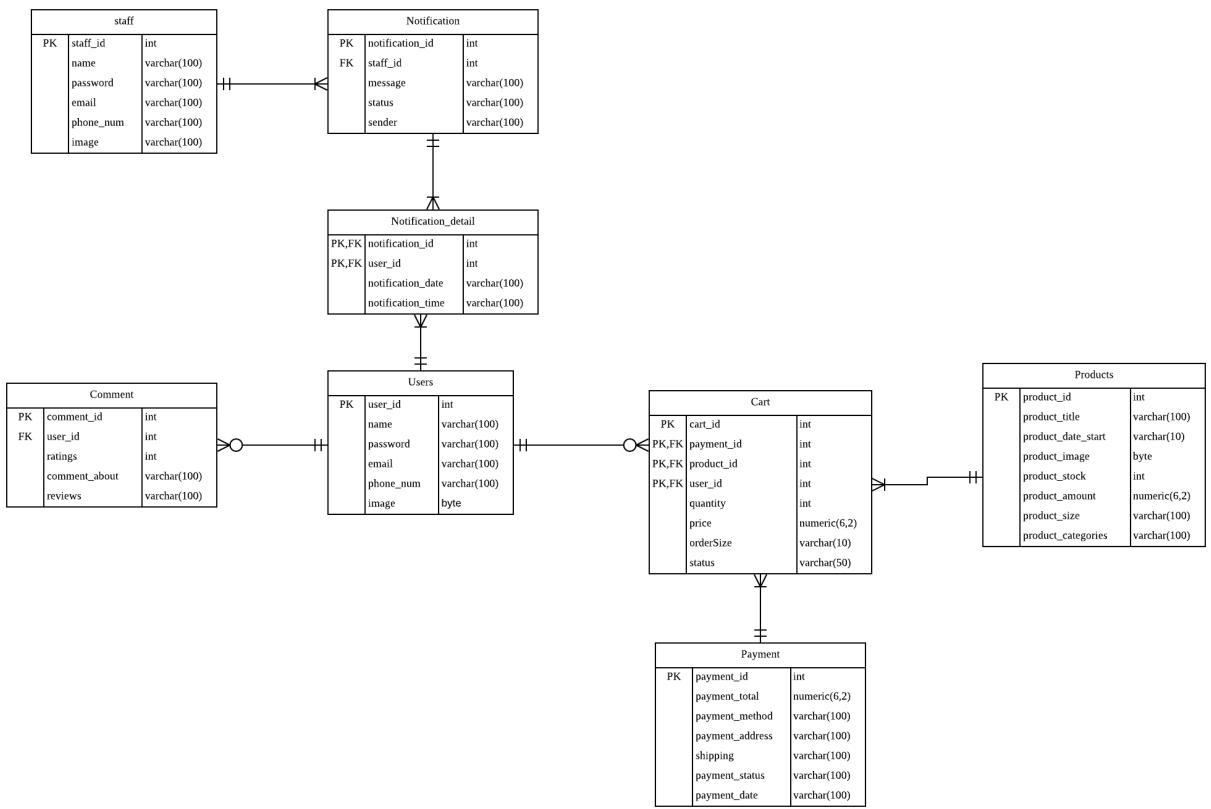
Product	Product Name Price Quantity : X Date: DAY, XX/XX/XXXX XX:XX:XX Status: Shipping
---------	---

In the history page, there will be 2 sections. items that are delivered to customers will be shown as status delivered. Next, items that are still in processing will be shown as status shipping or packaging. At the first section History Items, it will be showing items with status delivered. At the second section Purchased items, it will be showing items with status packaging or shipping.

4. ERD diagram

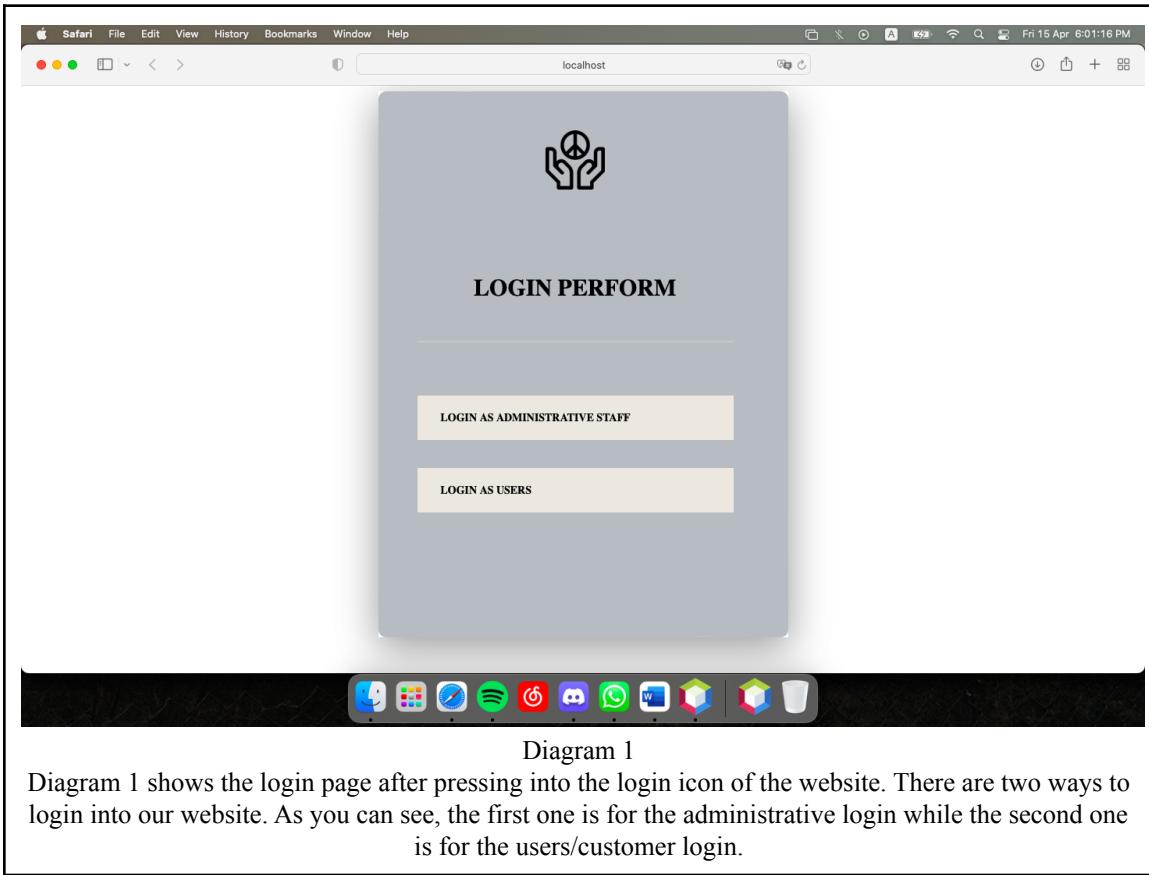
Erd Diagram

https://lucid.app/lucidchart/f457a2d6-422e-48b3-8e9d-7bf8c2e1371a/edit?invitationId=inv_3d293e3c-25c7-48a6-bc01-0fb90a17f04c



5. User Manual of each Module with screenshots

1) Customer Registration and Login module



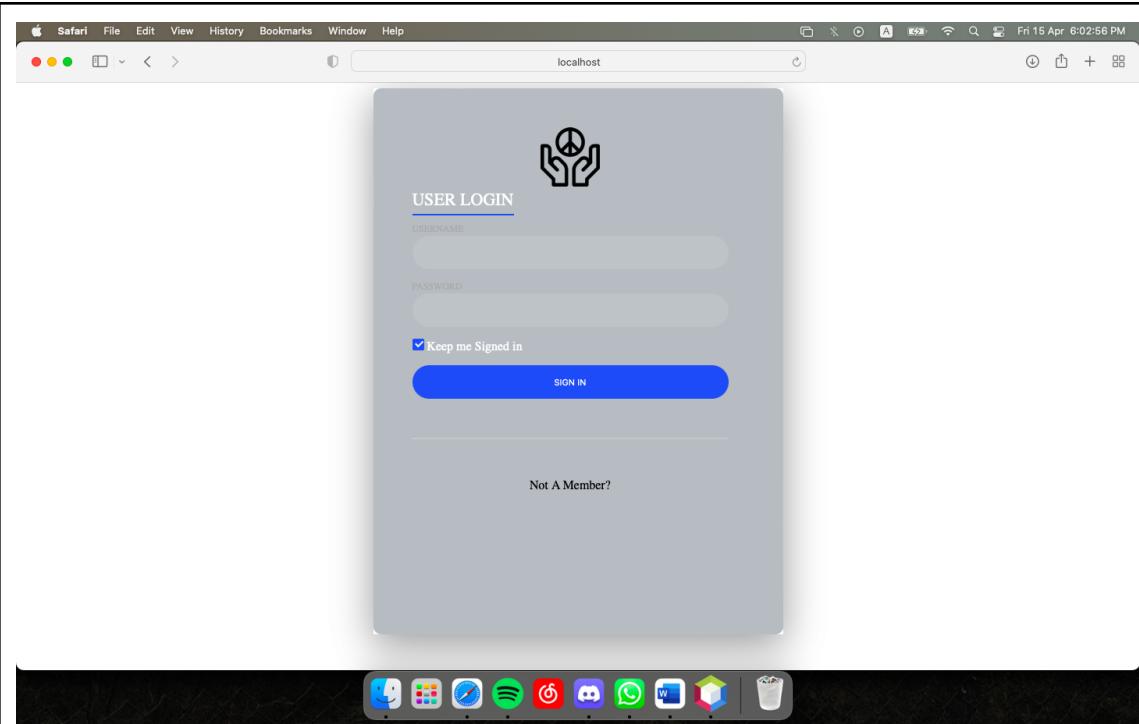


Diagram 1.2

Diagram 1.2 shows the login pages for **users** only. Users can login to our website through this page by keying their username and password. If users did not own an account, they can register a new account by pressing the **Not A Member ?** button and it will redirect the users to our registration page.

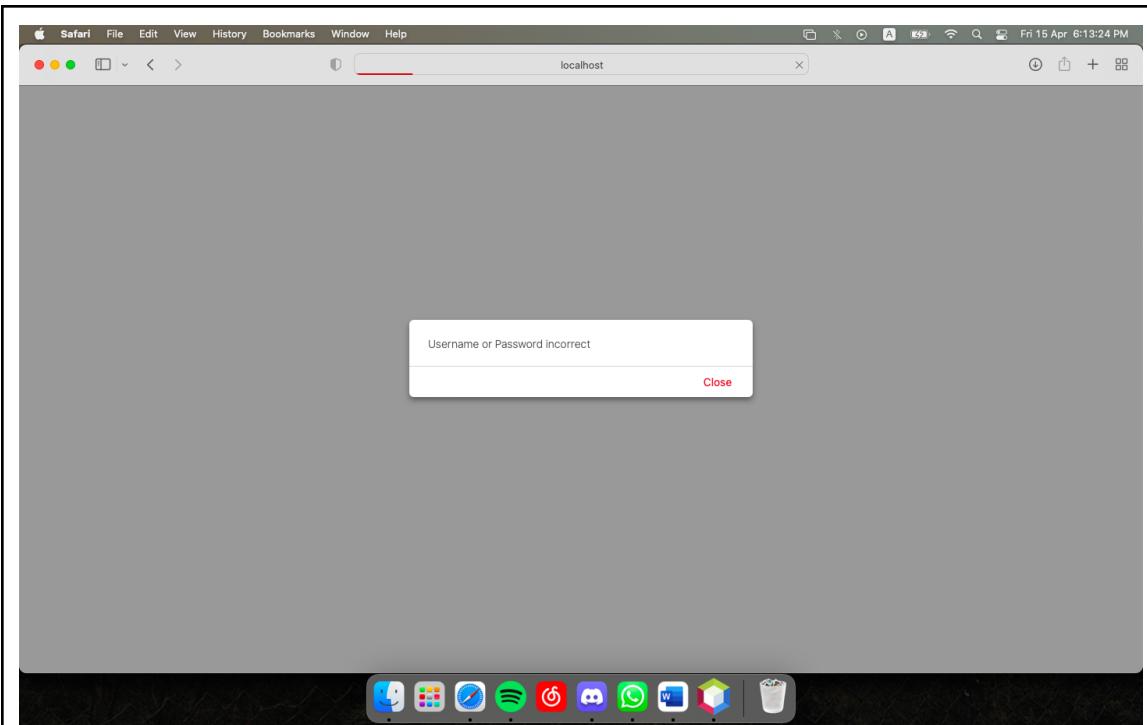


Diagram 1.3

Diagram 1.3 shows that an error message will be displayed in order to notify the users that they had keyed in the wrong password or username. After showing the message, it will redirect the users back to the login page for them to perform the next login.

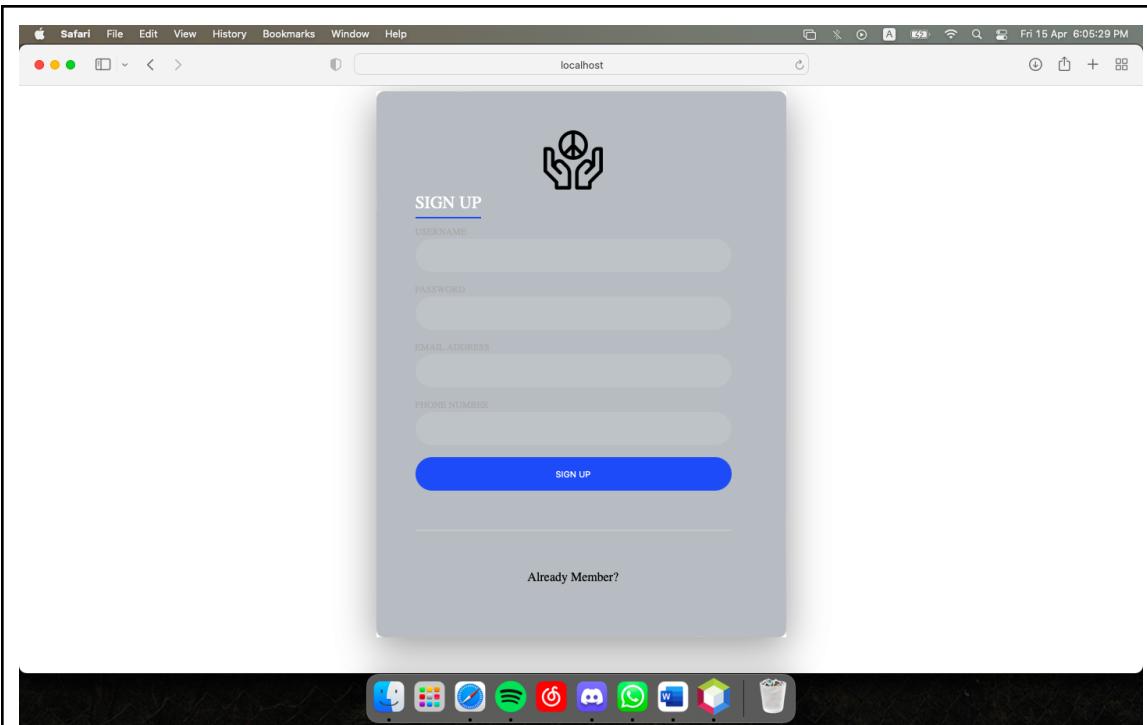


Diagram 1.4

Diagram 1.4 shows the registration page of our website. Users can register an account through this page by entering their name, password, email and phone number. After entering the details, a message will be displayed in order to notify the users that their account has been registered.

2) Customer View product and Profile

Product Name	Price	Size	Status
Hi	RM34.50	M	Limited Offer
Kakasi	RM27.50	M.LXL	Limited Offer
Tanjirou	RM67.00		
1	RM1.00		

Diagram 2.1



Home Product Cart History

🔍



Erhao
J@gmail.com

Profile Settings

Name	<input type="text" value="Erhao"/>
PhoneNumber	<input type="text" value="018-2055007"/>
Email ID	<input type="text" value="J@gmail.com"/>

Submit
Passsword Change



Home Product Cart History

🔍



Erhao
J@gmail.com

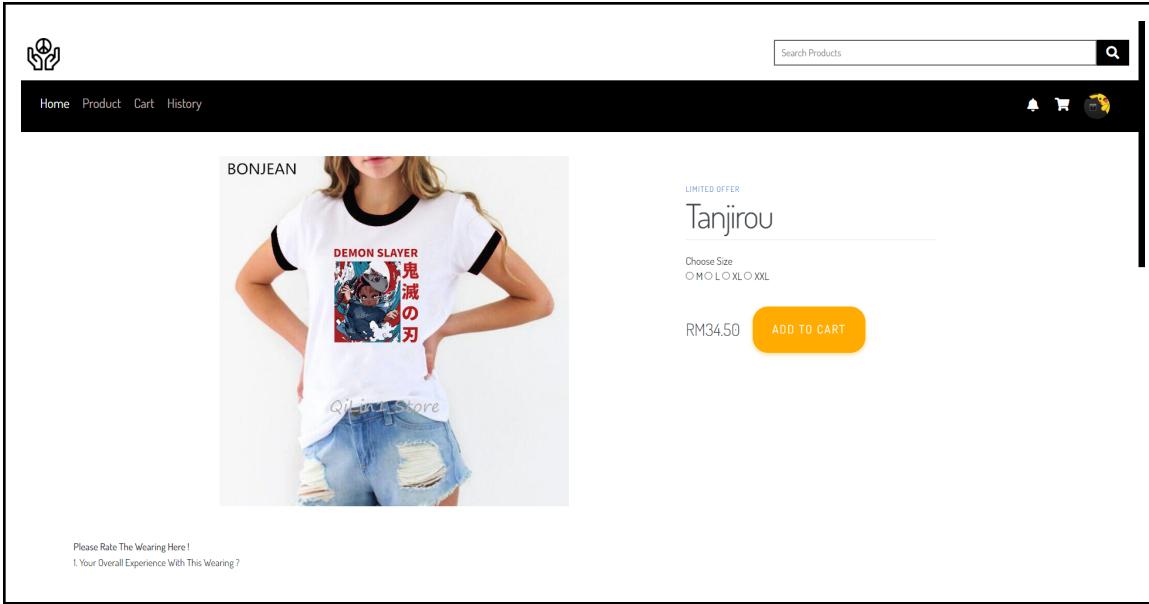
Profile Settings

Old Password	<input type="text"/>
New Password	<input type="text"/>
Confirm Password:	<input type="text"/>

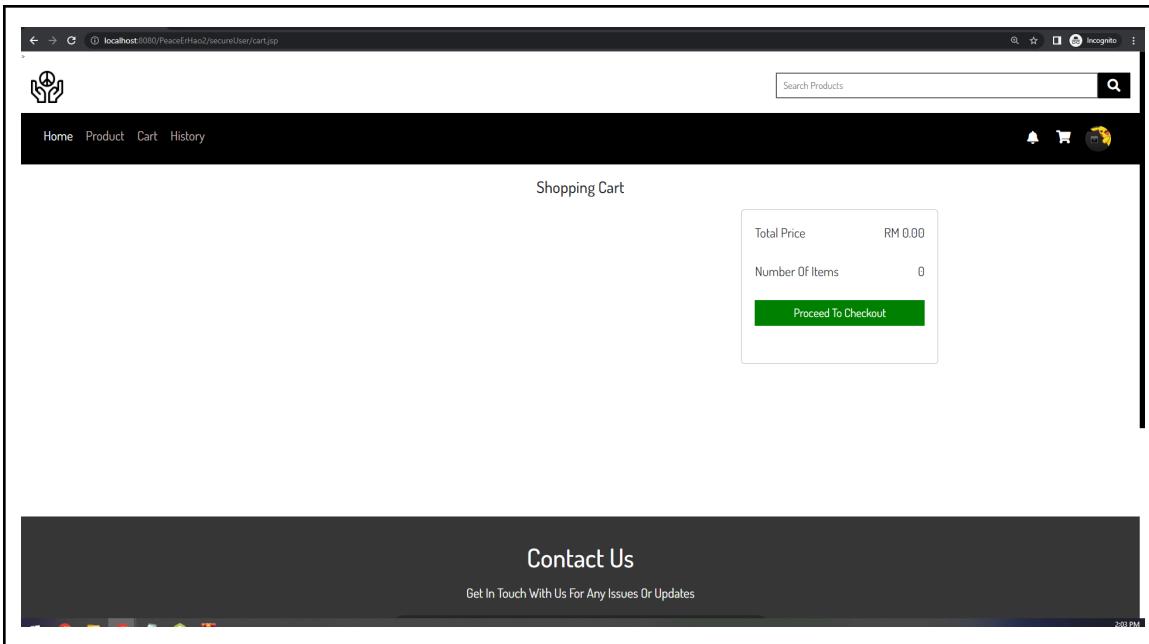
Change Password

<customer profile>
Diagram 2.2

3) Customer Order module



4) Customer Payment module



5) Customer Search product by product name or product id

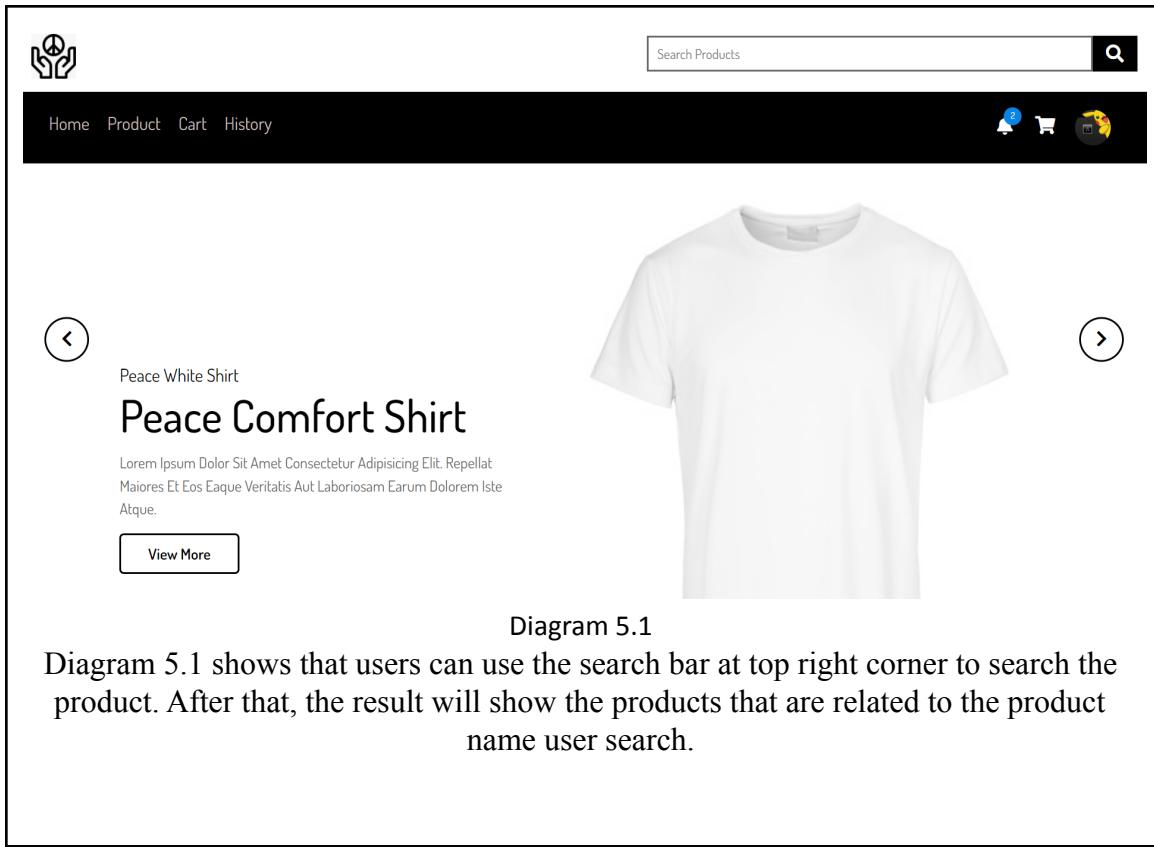
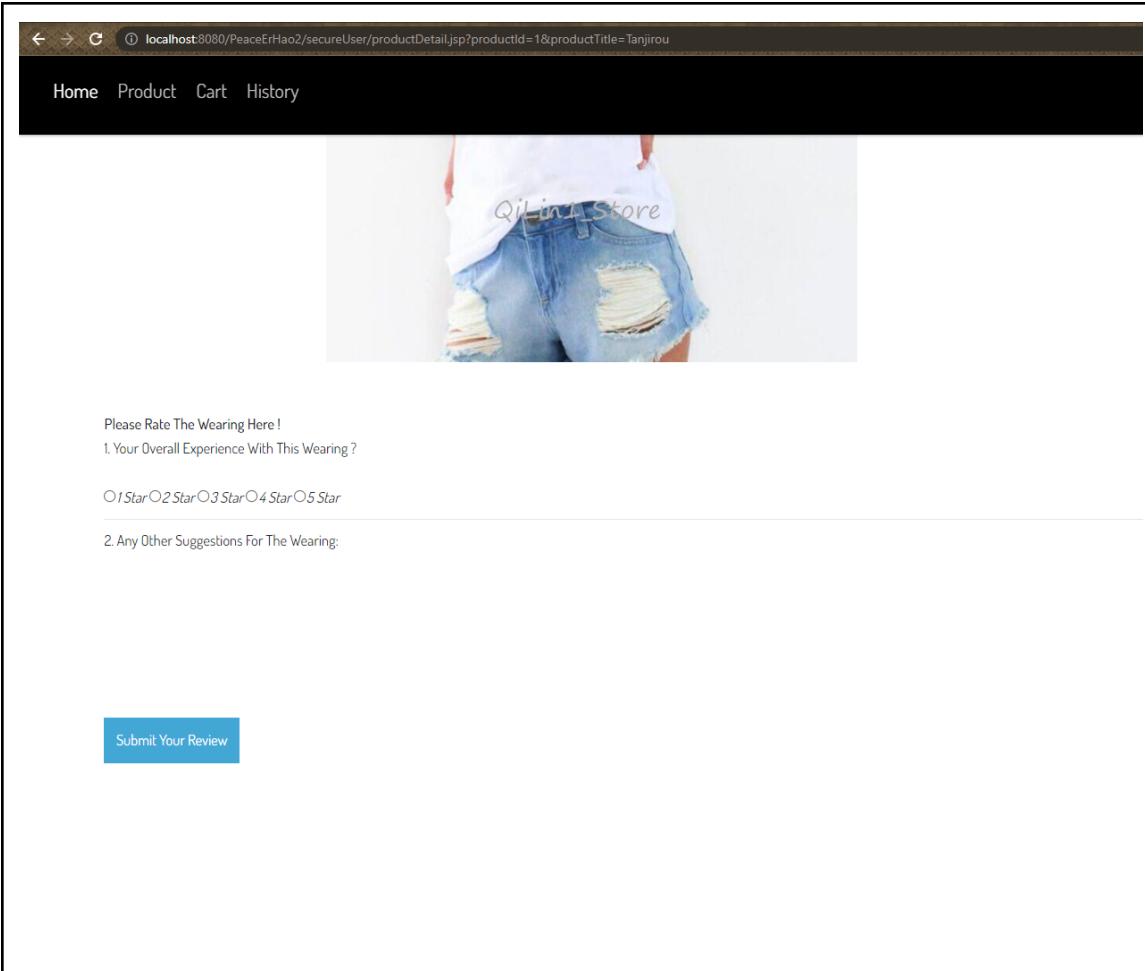


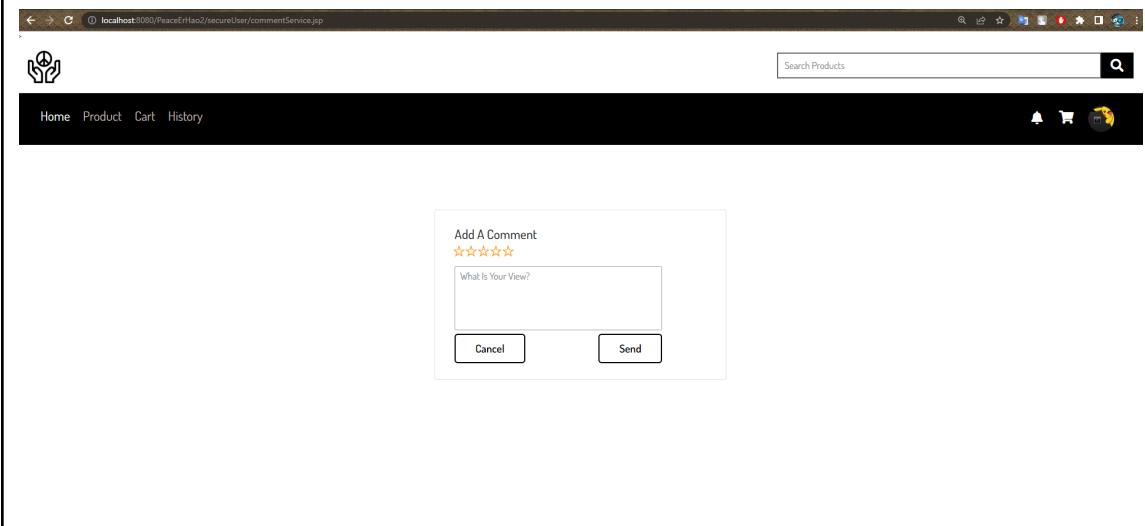
Diagram 5.1

Diagram 5.1 shows that users can use the search bar at top right corner to search the product. After that, the result will show the products that are related to the product name user search.

6) Customer Rating and comments on product and services



The screenshot shows a product review page for a pair of jeans. At the top, the URL is localhost:8080/PeaceErHao2/secureUser/productDetail.jsp?productId=1&productTitle=Tanjirou. Below the URL is a navigation bar with links for Home, Product, Cart, and History. The main content area features a photograph of a person wearing a white t-shirt with 'Qilini Store' printed on it and blue jeans with a large tear at the knee. Below the photo, the text 'Please Rate The Wearing Here!' is displayed. A question '1. Your Overall Experience With This Wearing?' follows, with five radio button options: 1 Star, 2 Star, 3 Star, 4 Star, and 5 Star. Another question '2. Any Other Suggestions For The Wearing:' is present. At the bottom left is a blue button labeled 'Submit Your Review'.



The screenshot shows a comment submission dialog box. The URL at the top is localhost:8080/PeaceErHao2/secureUser/commentService.jsp. The dialog box has a title 'Add A Comment' and a rating section showing five yellow stars. It contains a text input field with placeholder text 'What Is Your View?'. At the bottom are two buttons: 'Cancel' and 'Send'.

7) Customer Check order status and Check order history

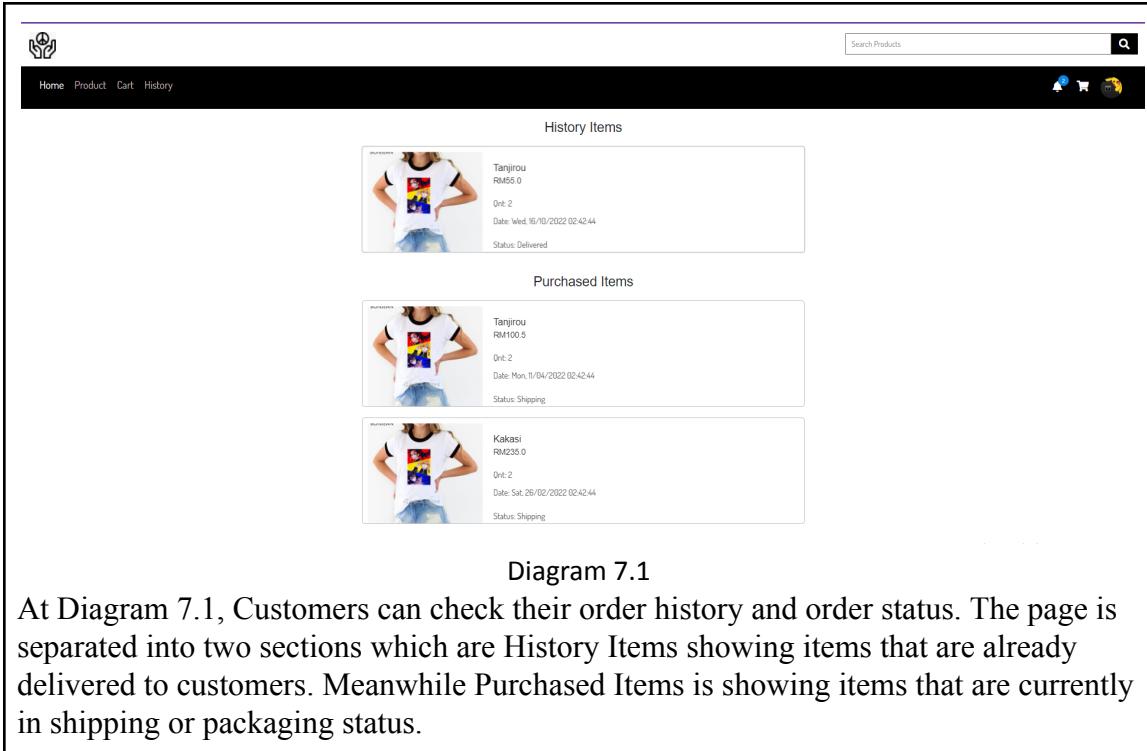


Diagram 7.1

At Diagram 7.1, Customers can check their order history and order status. The page is separated into two sections which are History Items showing items that are already delivered to customers. Meanwhile Purchased Items is showing items that are currently in shipping or packaging status.

8) Register New staff (only admin/manager use) and Login module

Add Staff

Staff ID	Staff Name
<input type="text" value="auto generated"/>	<input type="text"/>
Password	Email
<input type="text"/>	<input type="text"/>
Phone Number	Staff Image
<input type="text" value="012-34567890"/>	<input type="button" value="Choose File"/> No fil...hosen <input type="file"/>
<input type="button" value="Add Staff"/>	

Diagram 8.1
Diagram 8.1 shows that the admin can create a staff by insert name, password, email, phone number, and upload an image.

Diagram 8.2
Diagram 8.2 shows that administrative login page. This login page is only for

administrative staff.

9) manager/admin Maintain staffs (RBAC)

All Staff

Add Staff

Show 10 entries Search:

Staff Name	Staff ID	Password	Email	Phone Number	Actions
 test	16	1	1@1	012-34567890	
 jingcheng	2	WkuhE	jc@gmail.com	017-5066725	
 Jerald	1	nbuser	Jerald@gmail.com	018-2055127	
 hanesh	3	nbuser	hns@gmail.com	018-9055153	

Diagram 9.1
Diagram 9.1 shows that the admin can view the search bar to search all of the staff or all of the staff details and sort the list by clicking the table header.

Edit Staff

Staff ID	Staff Name
5	1
Password	Email
.....	1@1
Phone Number	Staff Image
012-34567890	<input type="button" value="Choose File"/> No fil...hosen 
<input type="button" value="Save Staff"/>	

Diagram 9.3

Diagram 9.3 shows all of the details of staff that are stored in the database. Admin can edit a staff by insert name, password, email, phone number, or upload an image. If the admin is only editing the name of the staff, the program still can run.

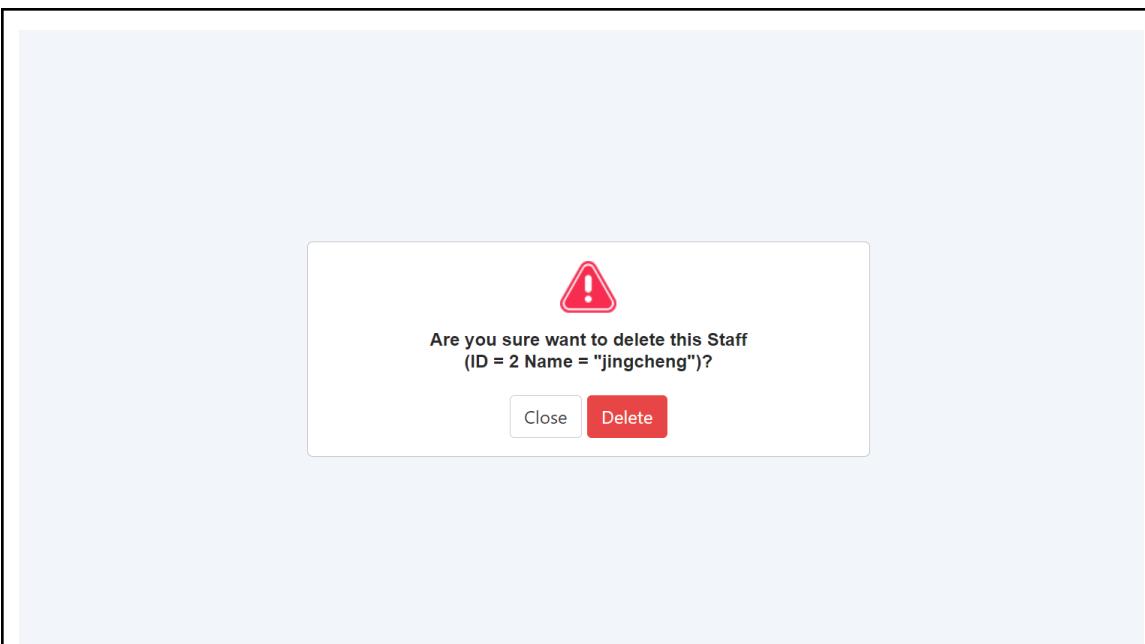


Diagram 9.4

Diagram 9.4 shows a delete confirmation message to the manager. If the manager pressed the delete button, the staff's account will be deleted. This action can be only performed by the **manager**.

10) staff/manager Maintain product (RBAC)

Products									Add Product
Show <select>10</select> entries <input placeholder="Search: " style="width: 150px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; margin-left: 10px;" type="text"/>									
ID	Name	Purchase Date	Image	Stock	Amount	Size	Category	Actions	
1	hi	04/06/2022		100	34.5	M	Limited Offer	...	
2	Kakasi	03/05/2022		88	27.5	M,L,XL	Limited Offer	...	
3	Tanjirou	04/06/2022		66	67.0	M,L,XL	Limited Offer	...	
21	1	13/04/2022		1	1.0	L	Limited Offer	...	
23	1	13/04/2022		1	1.0	M,L,XL	New Arrival	...	

Diagram 10.1

Add Product

Product ID	Product Name
<input type="text" value="auto generated"/>	<input type="text"/>
Product Amount	Product Stock
<input type="text"/>	<input type="text"/>
Product Image	Product Purchase Date
<input type="button" value="Choose File"/> No fil...hosen	<input type="text" value="16/04/2022"/>
Product Category	Product Size
<input type="radio"/> Limited Offer <input type="radio"/> Popular	<input type="checkbox"/> M <input type="checkbox"/> L

Diagram 10.2

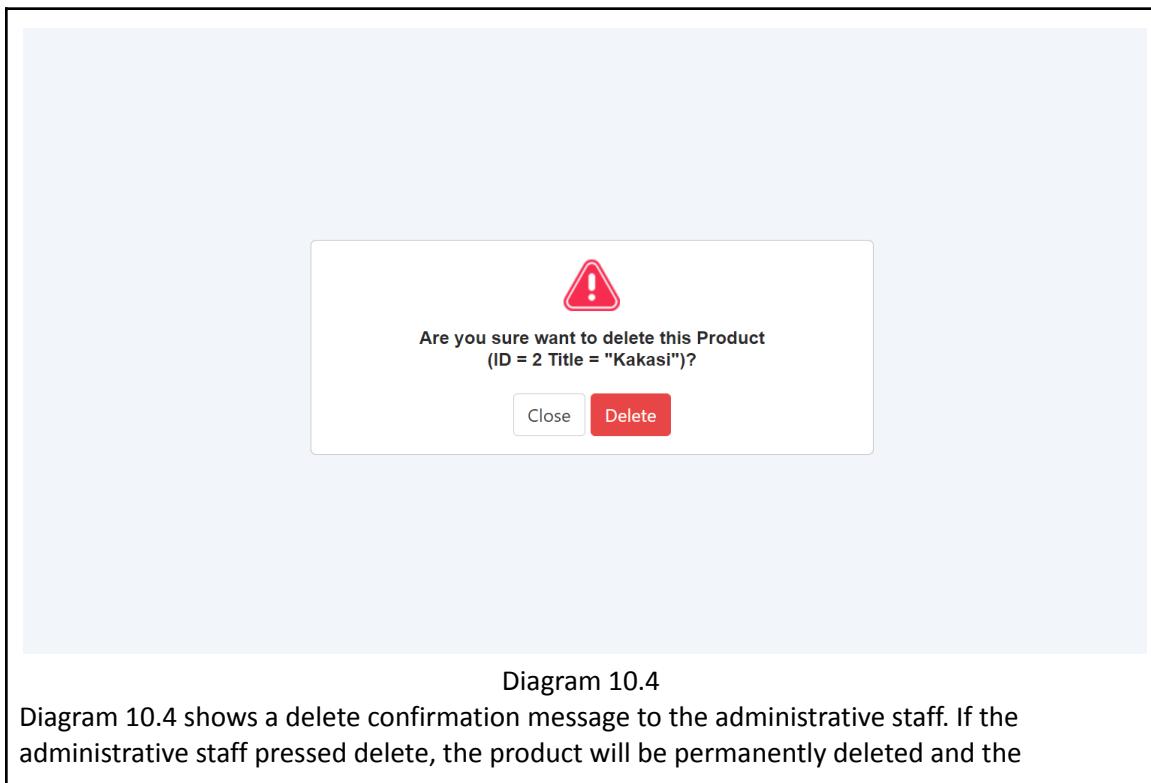
Diagram 10.2 shows the add product page which can only be added by staff / manager only. After adding product through this page, it will be displayed at our product pages.

Edit Product

Product ID	Product Name
1	hi
Product Amount	Product Stock
34.5	100
Product Image	Product Purchase Date
<input type="button" value="Choose File"/> No fil...hosen	04/06/2022
	
Product Category	Product Size
<input checked="" type="radio"/> Limited Offer <input type="radio"/> Popular <input type="radio"/> New Arrival	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> XL

Diagram 10.3

Diagram 10.3 shows the edit product page of our website. The administrative staff can edit the product details such as product amount, name, stock and so on through this panel. After editing the details in here, the product will be updated at our main product page.



user/customer will not be able to find it again until the administrative staff adds it back.

11) staff/manager View customer records (apply sorting and RBAC)

Payment ID	User ID	Username	Profile Picture	Product Title	Product Image	Quantity	Status	Total	Address	Date
2	1	erhao	lee.jpg	Kakasi	new2.jpg	2	shipping	235.0	Bukit bintang	Sat, 26/02/2022 02:42:44

12) staff/manager View sales records (apply sorting and RBAC)

Payment ID	User ID	Username	Profile Picture	Product Title	Product Image	Quantity	Status	Total	Address	Date
2	1	erhao	lee.jpg	Kakasi	new2.jpg	2	shipping	235.0	Bukit bintang	Sat, 26/02/2022 02:42:44

13) staff/manager Generate report (e.g. sale report) suggest 3 reports suitable for your business.

The screenshot shows a web application interface titled "All Staff". On the left, there is a sidebar with navigation links: Dashboard, Customers, Staff, Employees, Products, View Sales, Comments, and Reports. The main content area is titled "All Staff" and contains a table with the following data:

Staff Name	Staff ID	Password	Email	Phone Number	Actions
US 1	1	1	Jerald@gmail.com	018-2055127	⋮
US hanesh	3	nbuser	hns@gmail.com	018-9055153	⋮
US jingcheng	2	nbuser	jc@gmail.com	017-5066725	⋮

Below the table, it says "Showing 1 to 3 of 3 entries". There are "Previous" and "Next" buttons at the bottom right. A search bar is located at the top right of the main content area.

14) staff/manager Search by Criteria (Search sales record, product, staff, order, etc.)

The screenshot displays three separate search pages within the same application:

- Products**: Shows a table with 10 entries. The columns are not explicitly labeled but correspond to the structure of the other tables. A search bar is at the top right.
- All Staff**: Shows a table with 10 entries. The columns are Staff Name, Staff ID, Password, Email, Phone Number, and Actions. A search bar is at the top right.
- All Staff**: Shows a table with 10 entries. The columns are Staff Name, Staff ID, Password, Email, Phone Number, and Actions. A search bar is at the top right.

Customer Order Details											
Payment ID	User ID	Username	Profile Picture	Product Title	Product Image	Quantity	Status	Total	Address	Date	
2	1	erhao	lee.jpg	Kakasi	new2.jpg	2	shipping	235.0	Bukit bintang	Sat, 26/02/2022 02:42:44	Edit

15) staff/manager Update order status – 3 status packaging, shipping, delivered

Diagram 15.1

On Diagram 15.1, staff or managers can update the order status to shipping, packaging or delivery. After choosing one status , press save and the status will be changed in customer records. If the staff or manager wants to cancel , just press the cancel button beside the save and it will bring them back to view the customer record table page.

16) staff/manager View rating and comments and reply comment and provide feedback

Comments

 ★★★★★ erhao Good Stuff About Tanjirou Reply

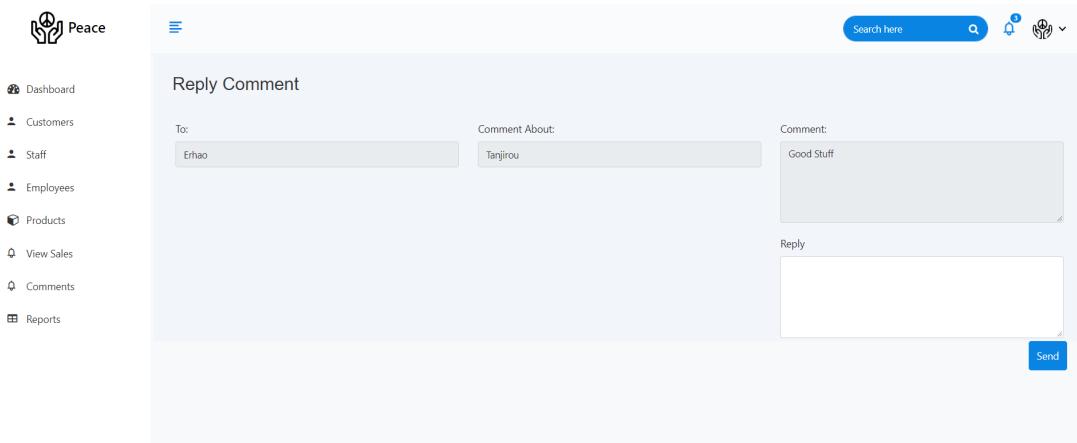
 ★★★★★ erhao Good Stuff111 About abc Reply

 ★★★★★ erhao sddd About Service Reply

 ★★★★★ Jerald Good Stuff2 About hahaha Reply

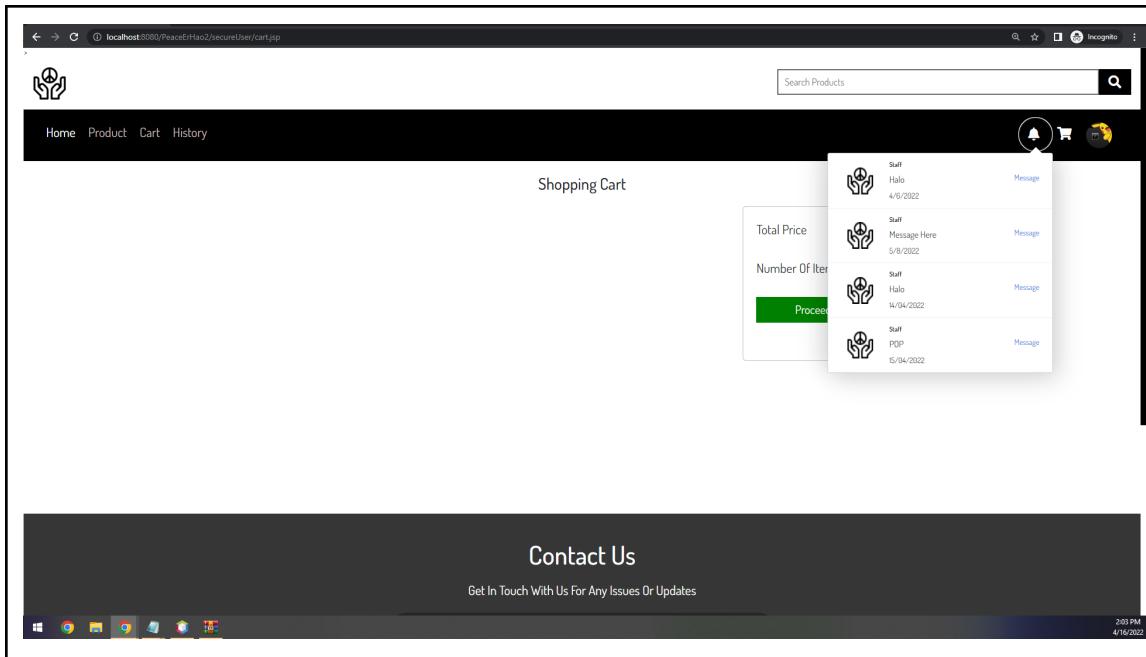
Diagram 16.1

Diagram 16.1 shows an admin panel. This admin panel allows administrative staff to reply to the user about their comment and feedback. After replying to the users, the users can check the administrative staff's responses through the chat.



The screenshot displays a user interface for managing comments. On the left, there is a sidebar with navigation links: Dashboard, Customers, Staff, Employees, Products, View Sales, Comments, and Reports. The main area has a title "Reply Comment". It contains three input fields: "To:" with the value "Erhao", "Comment About:" with the value "Tanjirou", and "Comment:" with the value "Good Stuff". Below these fields is a large text area labeled "Reply" where a response can be typed. A "Send" button is located at the bottom right of the reply area. At the top right of the main window, there is a search bar with the placeholder "Search here" and some small icons.

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17) staff/manager View chart

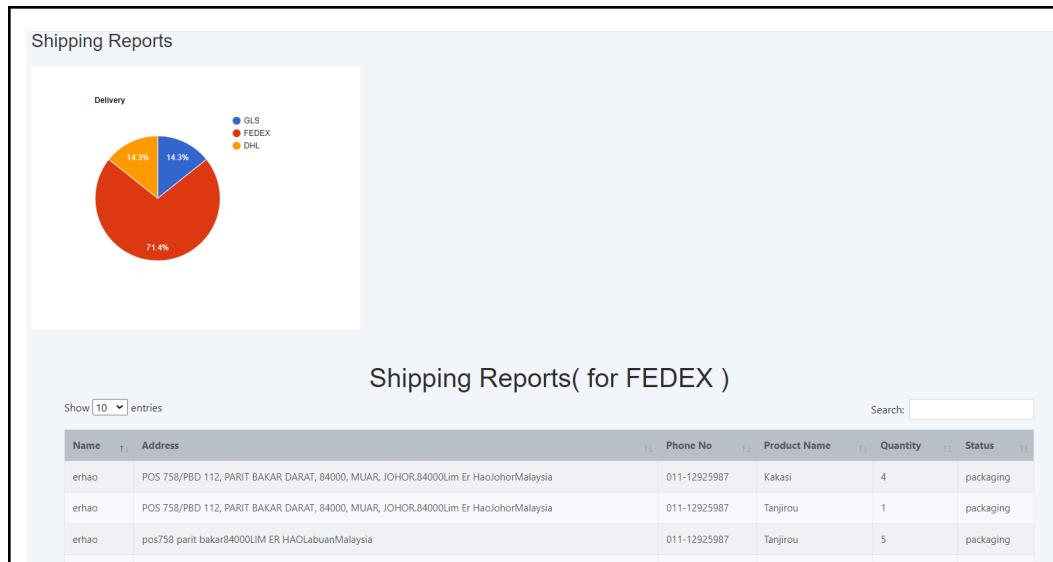


Diagram 17.1

Diagram 17.1 shows the shipping reports, if an administrative staff clicks on the particular option, they are able to view the details and information of those customers who are using that shipping method to deliver their products.



Diagram 17.2

Diagram 17.2 shows the monthly sales reports in this current year, if an administrative staff clicks on the particular month, the reports table for that month will be displayed.



Diagram 17.3 shows the customer service reports, this report displays the number of requests handled by the staff. If an administrative staff has clicked one of the option inside the reports, they are able to see more detailed information such as the staff's reply message, reply date and time.

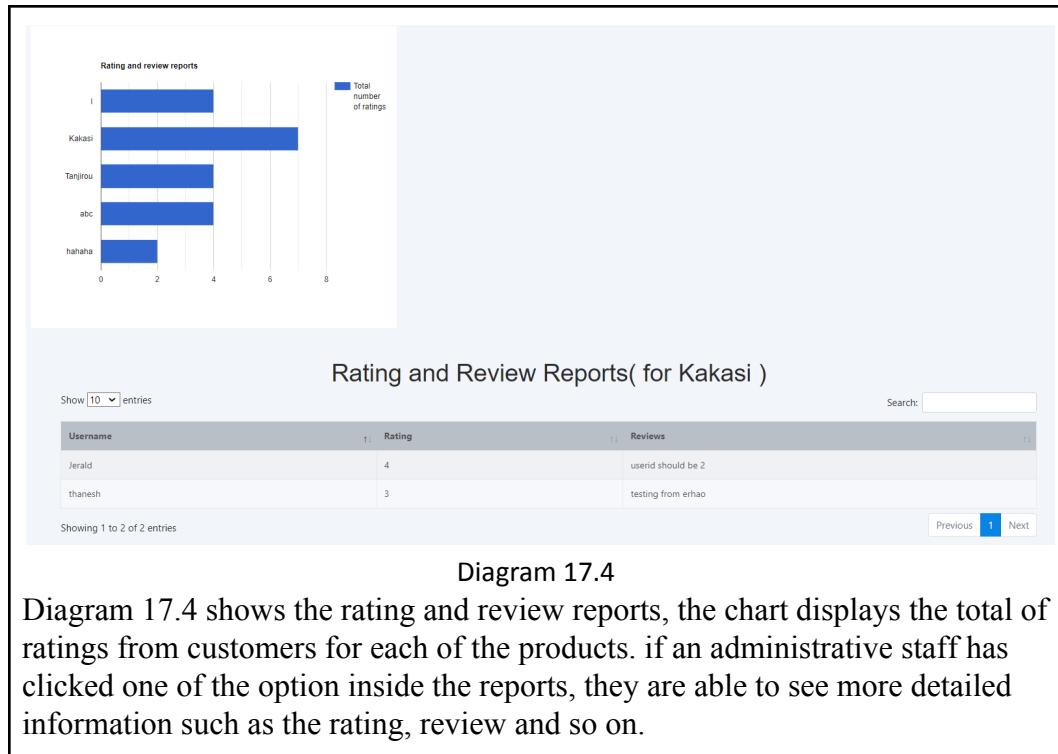


Diagram 17.4

Diagram 17.4 shows the rating and review reports, the chart displays the total of ratings from customers for each of the products. if an administrative staff has clicked one of the option inside the reports, they are able to see more detailed information such as the rating, review and so on.

6. Conclusion

As a conclusion, everyone in this group has contributed to the assignment. Each of us handled at least 2 modules. Besides that, we also worked together to finish the report. Other than that, we helped each other throughout the assignment which showed teamwork.

As for the pro of the website, it has quite a lot of functions which normal e-commerce websites we see on the Internet have. The interface is simple and tidy which makes it easy to understand even for first time users. This shows that the website is user friendly. Other than that, we made sure that the website works without any problems such as no missing pages, invalid data retrieved or saved into the database.

For the con of the website, it is still not perfect compared to the international e-commerce websites such as Shopee and Lazada. I believe that some parts of the code might have an easier and less complicated method to do it. This shows that we are still not that experienced in the field of GUI.

Lastly, enhancement we could do in the website is by fixing errors mentioned by our tutor. Other than that, the tutor might offer us some advice on the method we used on certain parts of the code. As mentioned above, we are still inexperienced so I believe that there will be a lot of enhancement we can do such as using less complicated methods, better interface of the website and perfecting the function of the website.

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