

# Taste of K-pop: Korean Music Selling System

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## Abstract

The increasing demand for K-pop merchandise such as albums, lightsticks, and photocards among Malaysian fans has highlighted limitations in existing e-commerce platforms like Shopee and Lazada, which are not tailored to this niche market. These platforms often lack dedicated product categories, trusted seller systems, and interactive community features, making it difficult for fans to trade and purchase items safely and efficiently. To overcome these challenges, the "Taste of KPOP" project was developed as a specialized e-commerce platform designed for K-pop fans in Malaysia. The system includes features such as secure user registration, product listings tailored to K-pop items, a trusted review and rating system, and a trade function for photocards and merchandise. Developed using the Agile methodology, the project focused on iterative development and frequent user feedback to improve usability and performance. User Acceptance Testing (UAT) confirmed the system's reliability and functionality, with positive responses across all tested modules. Future improvements will include mobile app integration, additional payment methods, and more advanced community interaction features to further enhance the fan experience.

## 1. Introduction

"Taste of KPOP" is a planned e-commerce platform dedicated to K-pop fans in Malaysia, addressing challenges faced when buying and selling K-pop merchandise on general websites like Shopee and Lazada. These larger platforms often mix K-pop items with unrelated products, making it difficult for fans to find what they want, and sellers struggle to target the right audience. "Taste of KPOP" will streamline this process by providing a specialized marketplace for K-pop albums, light sticks, and photocards, featuring a tailored listing system, product reviews to build trust, and a community space where fans can connect and share their collections, creating a more focused and engaging experience [1].

## 2. Literature Review

In this chapter literature review, an explanation related to the development of the Taste of KPOP system. It shows the differences of the system compared to the existing system that is already running in the market. This chapter also contains explanations for domain case study, method or technology, study of existing systems, comparison of existing systems and its summary. This also covers the system's advantages and why the system needed to be developed [2]. All tables should be numbered with Arabic numerals. Every table should have a caption. Headings should be placed above tables. Only horizontal lines should be used within a table, to distinguish the column headings from the body of the table, and immediately above and below the table. Tables

must be embedded into the text and not supplied separately. Below is an example which the authors may find useful [3].

## 2.1 Comparison with the Existing Systems

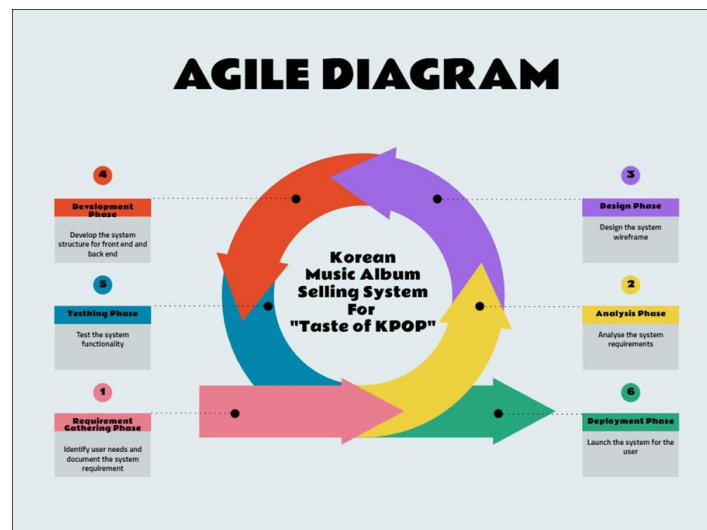
Based on the findings result from the table above, every system has its own advantages and disadvantages. There are some differences between the existing system compared to Taste of KPOP. Taste of KPOP includes the admin dashboard function where the admin can view the total income of the sold merchandise, the number of users registered, the number of stocks left, and the number of items that have been sold. There is a difference too in the payment option where Taste of KPOP offers a trade option to make direct trade between one-to-one products. For example, if someone has the same item or duplicate item, a trade offer can be tried to get a different item that is fair and square by putting the same price or multiple products with same price. [4].

**Table 1** System Comparison

| Features/System | Shopee | Carousell | Discogs | Taste of KPOP |
|-----------------|--------|-----------|---------|---------------|
| Login           | √      | √         | √       | √             |
| User Profile    | √      | √         | √       | √             |
| Product Rating  | √      | √         | √       | √             |
| Trade Method    | X      | X         | X       | √             |
| Shopping Cart   | √      | √         | √       | √             |

## 3. Methodology

This section discusses the use of the agile methodology for the development of the "Taste of KPOP" platform, highlighting its suitability due to the project's short timeframe. Agile is chosen because it allows for flexibility and continuous updates through short cycles called sprints, enabling the system to be built in small, manageable steps [5]. This approach is ideal for adapting to changes in features and user requirements as the project progresses. The chapter will explain the tasks, goals, and software used in each phase of development under the agile process.



**Fig. 1** Agile Diagram

### 3.1 System Development Workflow

There are a total of six phases from the agile model. As shown in Table 2, each phase has its own assignment and output that is needed to produce during the entire project development. Besides that, the output was completed within the specific days that have been given.

**Table 2** *System Development Workflow*

| Phase       | Task                                                                                                                        | Output                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Planning    | <ul style="list-style-type: none"> <li>Choose suitable title</li> <li>Plan future steps and its duration</li> </ul>         | <ul style="list-style-type: none"> <li>Project Proposal</li> <li>Develop Gantt Chart</li> </ul>                  |
| Analysis    | <ul style="list-style-type: none"> <li>Analys the feedback of the requirements needed</li> </ul>                            | <ul style="list-style-type: none"> <li>List of project modules</li> </ul>                                        |
| Design      | <ul style="list-style-type: none"> <li>Sketch design of the system</li> <li>Make a visual image of the sketch</li> </ul>    | <ul style="list-style-type: none"> <li>Low fidelity and High-fidelity wireframe</li> </ul>                       |
| Development | <ul style="list-style-type: none"> <li>Code the main structure of the system</li> </ul>                                     | <ul style="list-style-type: none"> <li>Structure of the system that can be interact</li> </ul>                   |
| Testing     | <ul style="list-style-type: none"> <li>Test to check the individual components</li> <li>Solve all the bugs found</li> </ul> | <ul style="list-style-type: none"> <li>Basic functions work when is interacted</li> <li>No major bugs</li> </ul> |
| Deployment  | <ul style="list-style-type: none"> <li>Deploy the system to the market</li> <li>Make future improvements</li> </ul>         | <ul style="list-style-type: none"> <li>System can be used for everyone</li> <li>New updates</li> </ul>           |

#### 4. Analysis and Design

The system requirement analysis has been carried out to list out and explain the flow of the process involved in Taste of K-pop system. The system process will be explained and the functions of the system. The system modules and its description have been listed out.

##### 4.1 Functional and Non-Functional Requirements

A requirement is a statement that describes the functionality of a system that is to be built by covering various aspects clearly and decisively. Therefore, identifying requirements is a very important step that needs to be taken to develop a system. This is to understand and fulfil the users' needs in the system that needs to be developed. Table 3 describes the functional requirements for the proposed system Taste of K-pop. Functional requirements are the functions that the system should implement to view the behavior of the system. Table 4 describes the systems non-functional requirement [6].

**Table 3** *Functional requirement*

| No | Module                     | Description                                                                                                                                                                                                                                            |
|----|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | User Registration          | <ul style="list-style-type: none"> <li>Allow the new users to register a new account before logging in</li> <li>Allow the existing users to login with id and password</li> <li>Redirect the valid users to home page when successful login</li> </ul> |
| 2  | Product Listing and Search | <ul style="list-style-type: none"> <li>Allow the seller to add new product listing</li> <li>Allow buyers to search for specific products</li> <li>Allow the seller to make a detailed product listing</li> </ul>                                       |
| 3  | Shopping cart and Checkout | <ul style="list-style-type: none"> <li>Allow buyers to add items to cart</li> <li>Allow buyer to check out the items from the cart</li> <li>Allow buyers to check out directly from the product page</li> </ul>                                        |
| 4  | Payment Gateway            | <ul style="list-style-type: none"> <li>Allow buyers to have multiple payment methods</li> </ul>                                                                                                                                                        |
| 5  | Review and Rating System   | <ul style="list-style-type: none"> <li>Allow buyers to see product reviews before buying the product</li> <li>Allow the buyer to make a review and rate the product after buying the product</li> </ul>                                                |
| 6  | Admin Dashboard            | <ul style="list-style-type: none"> <li>Admin can view about their sales, stocks and total earnings</li> </ul>                                                                                                                                          |

**Table 4** *Non-Functional requirement*

| No | Requirement            | Description                                                                                  |
|----|------------------------|----------------------------------------------------------------------------------------------|
| 1  | Performance            | The system should always be usable                                                           |
| 2  | Operational            | The loading time required for a website is no more than 1 minute                             |
| 3  | Security               | The system should be able to access accounts with a valid username and a valid password only |
| 4  | Cultural and political | The system should be able to work on any web browser                                         |

## 4.2 User Requirement Analysis

User requirement analysis is what users expect from the system. It is also about the capability of the system being developed. Table 5 shows the user requirements for the proposed system Taste of K-pop.

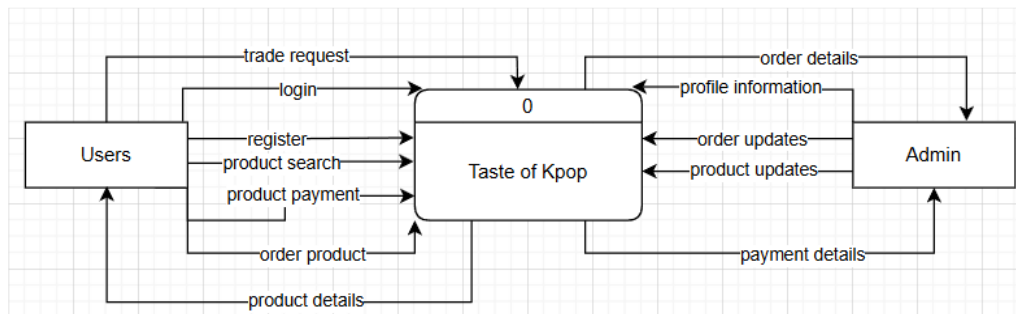
**Table 5** *User Requirement*

| No | Requirement                                                                                |
|----|--------------------------------------------------------------------------------------------|
| 1  | All users must have an account with valid id and password                                  |
| 2  | Sellers be able to add new products                                                        |
| 3  | Seller should be able to manage product stocks                                             |
| 4  | Seller should be able to view total sales                                                  |
| 5  | Buyers should be able to add products to the shopping cart and proceed to checkout         |
| 6  | Buyers should be able to leave reviews and ratings for purchased products                  |
| 7  | Buyers should be able to view their order history within the system                        |
| 8  | Administrators should be able to monitor user activity and ensure the system runs smoothly |
| 9  | All users should be able to create accounts and log in to the system                       |
| 10 | Sellers should be able to register as sellers and log in to the system securely            |
| 11 | Sellers should be able to update product availability and prices as required               |
| 12 | Sellers should be able to view and manage their incoming orders                            |
| 13 | Buyers should be able to create accounts and log in to the system                          |

## 4.3 Context Diagram

Figure 2 shows the context diagram with two external entities named users and admin. Taste of KPOP is the system that handles requests from both users and admin. For the user entity, there are some processes included. The user can register an account using a username and password and then login to the system using the same information. After login in, the user can browse the product, and the system will provide the product details. Then the user can place orders and make payments for the product. The system then will send payment related notification to the user.

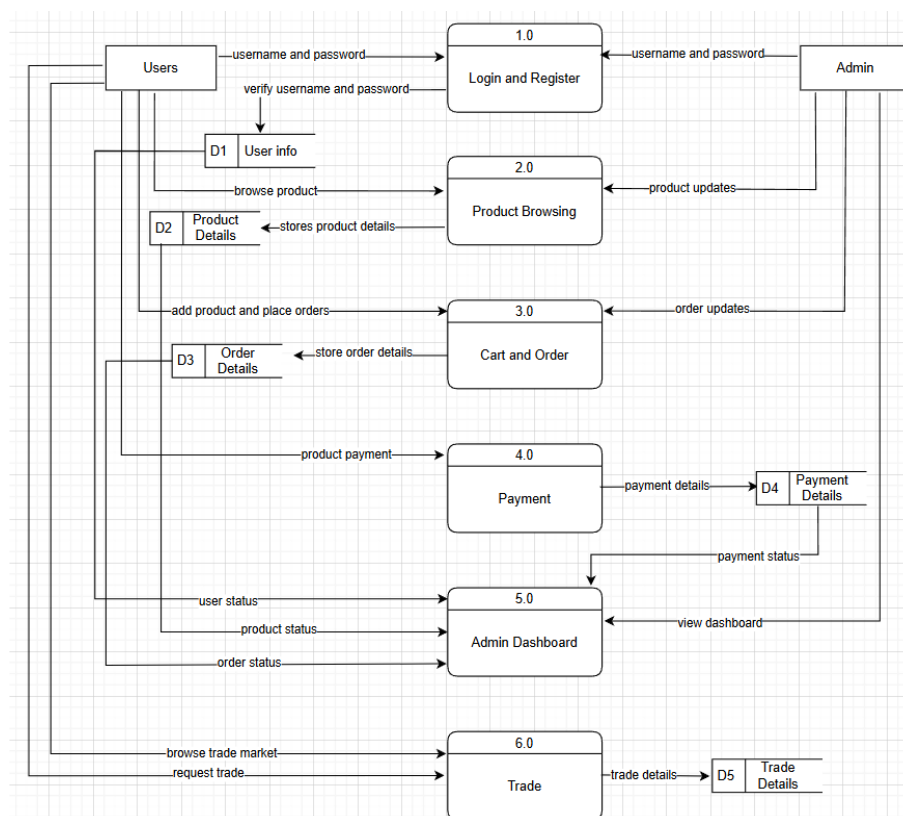
Next is the admin entity. Admin can manage profile where the admin can view and update profile. Admin can manage products by adding, updating or removing the product listing. Admin can also manage orders and orders detail from the system to review. Admin will also receive the payment details of the user from the system for processing.



**Fig. 2** Context Diagram

#### 4.4 Data Flow Diagram Level 0

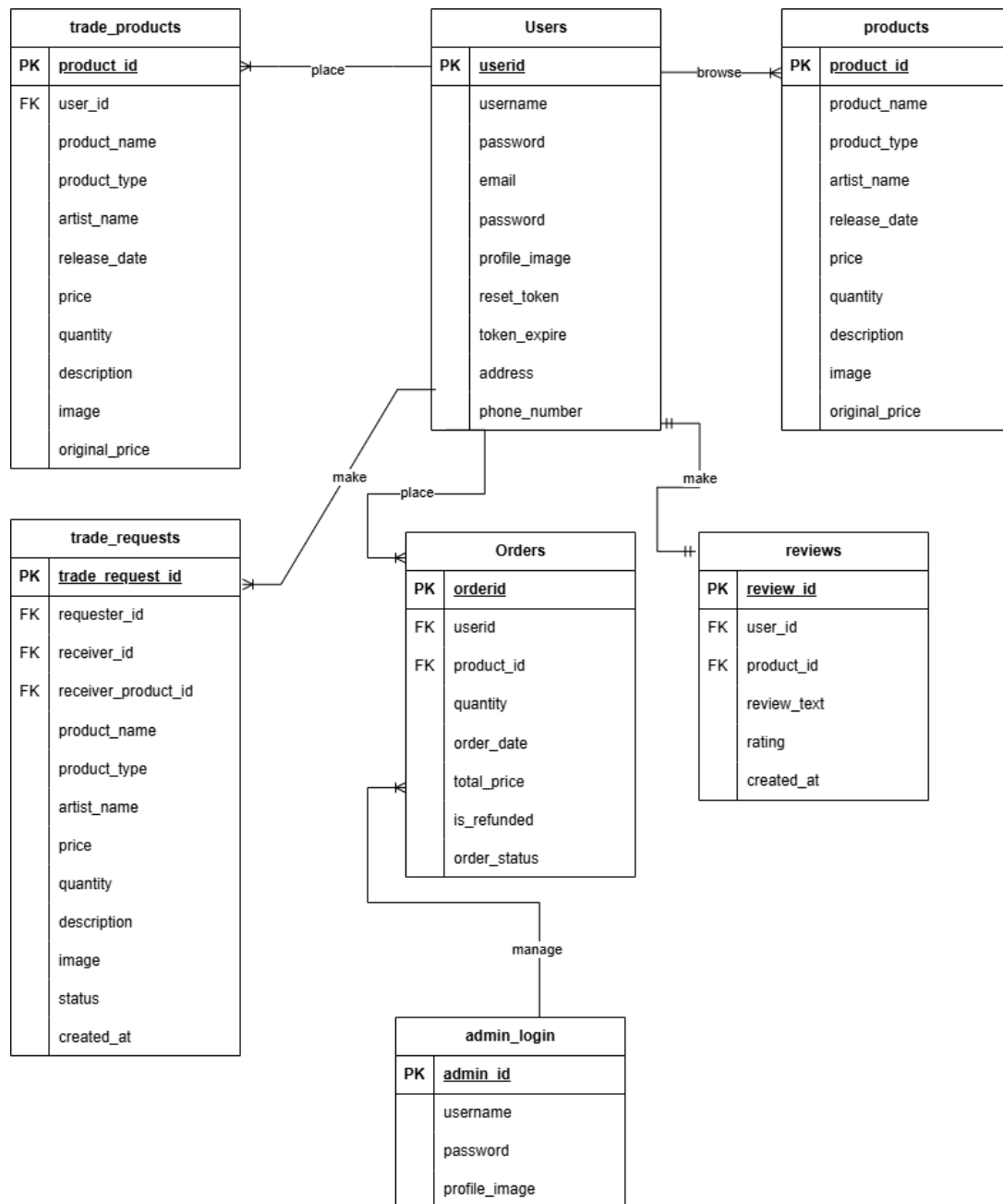
Data Flow Diagram (DFD) is a graphical representation of the flow of data or input from an entity through a process, which then generates output either to another entity or stored in data storage. DFD shows each input and output for each entity and process. Figure 3 shows the developed system's Level 0 Data Flow Diagram (DFD 0).



**Fig. 3** Data Flow Diagram

#### 4.5 Entity Relationship Diagram

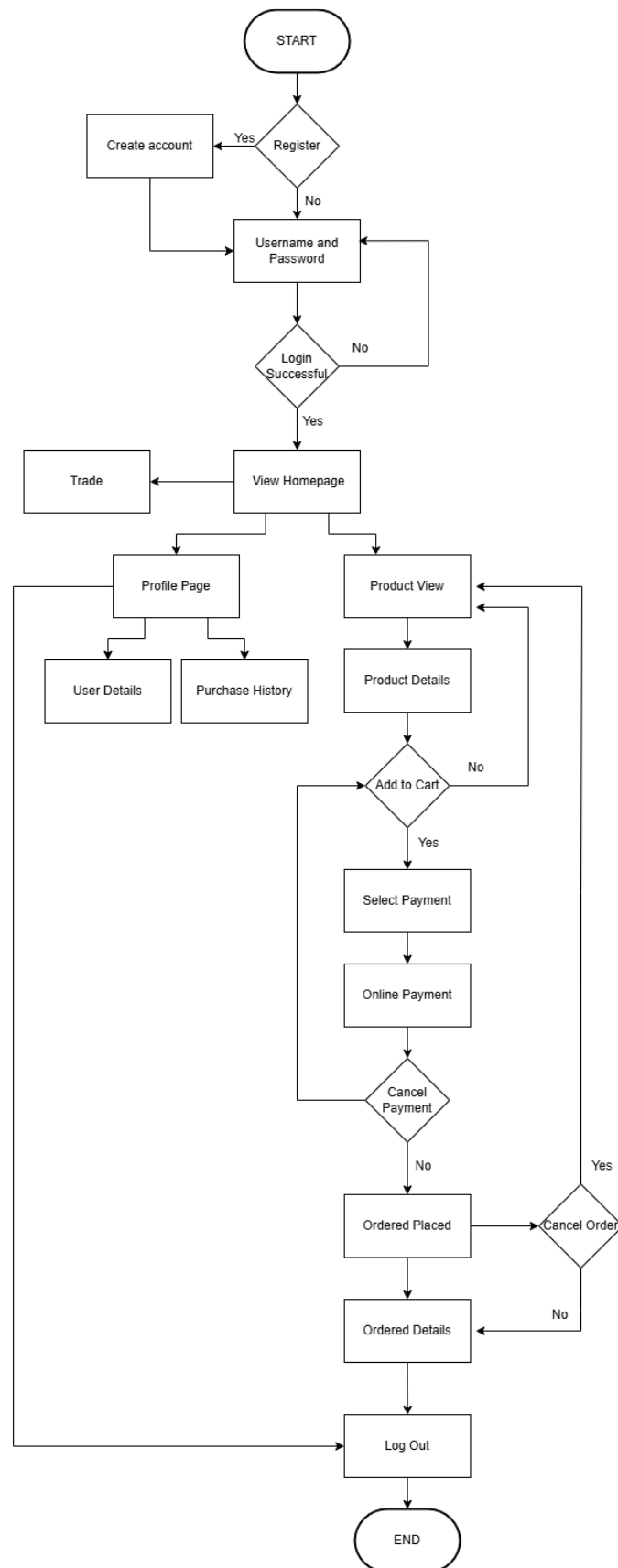
An Entity Relationship Diagram (ERD) is a visual representation of how different entities relate to each other in a system. ERDs are commonly used in database design to model the structure of a database and ensure data integrity [7]. Figure 4 shows the entity relationship of the system being developed.



**Fig. 4** Entity Relationship Diagram

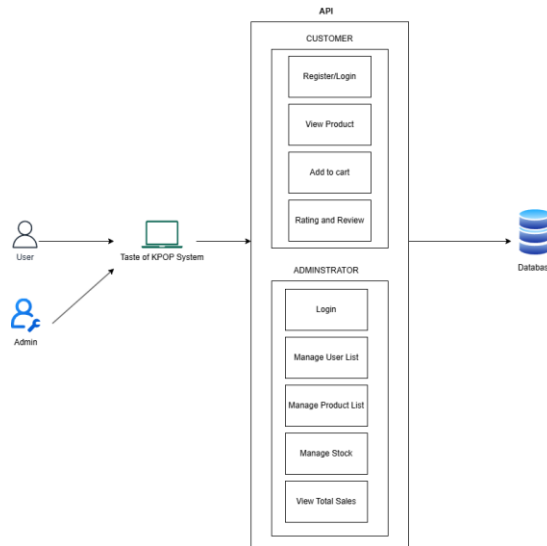
## 4.6 Flowchart

The flowchart for the "Taste of KPOP" system outlines the user process from registration to order placement. When the system is opened, users must either register or log in with their credentials. Upon successful login, the home page is displayed, allowing users to view products or access their profile, where they can see personal details and purchase history. In the product view, users can browse items, check details like price and description, and add products to the cart. During checkout, users choose a payment method, which can be cancelled, redirecting them back to the cart. If payment is completed, the order is placed, and users can view the order details. Even after placing an order, it can still be cancelled, after which users are redirected back to the product view page.

**Fig. 5** Flowchart

## 4.7 System Architecture

Figure 6 shows the Taste of Kpop system architecture. The product centre is where all products, such as K-pop albums, lightsticks, and photocards, are managed. The admin team oversees these products, ensuring they are added and updated in the system, as well as handling system operations like approving user actions and monitoring orders. The Taste of K-Pop System is the platform that connects both the users and the admin. It allows users to browse and purchase products, while interacting with the Database, which stores essential information such as user accounts, product details, orders, and payments. Users can easily access the system to browse products, place orders, and track their purchases.



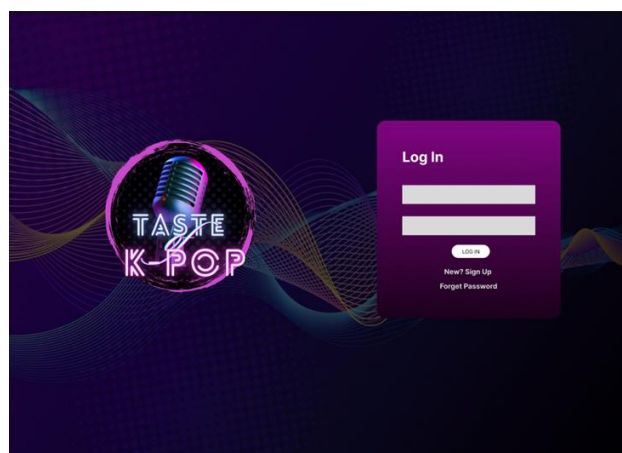
**Fig. 6** System Architecture

## 4.8 Interface Design

The following are the interfaces that have been designed based on each process are designed by using Visual Studio Code. Microsoft Visual Studio Code is a free, powerful, lightweight code editor for Windows, macOS and Linux. Based on open source, it is highly customizable with over 25,000 extensions, for every developer and every programming language.

### 4.8.1 Login Interface Design

In this process, User need to log into system by providing the correct username and password by using login interface as shown in Figure 7. The system will then validate the username and password. If both username and password are correct, the system will redirect User to the main page. If one of the usernames or passwords is incorrect, the system will automatically display an error message. After that, the system will request the User to re-enter the correct username and password or else create a new account by signing up.



**Fig. 7** Log In Page

### 4.8.2 Home Interface Design

After successfully logging in, the system will display the main menu interface as shown in Figure 8. The Home page contains a navigation bar with all types of products, a search box, cart and profile page. The home page contains a slider showing the latest albums and hot sales section to show the user the best-selling products.

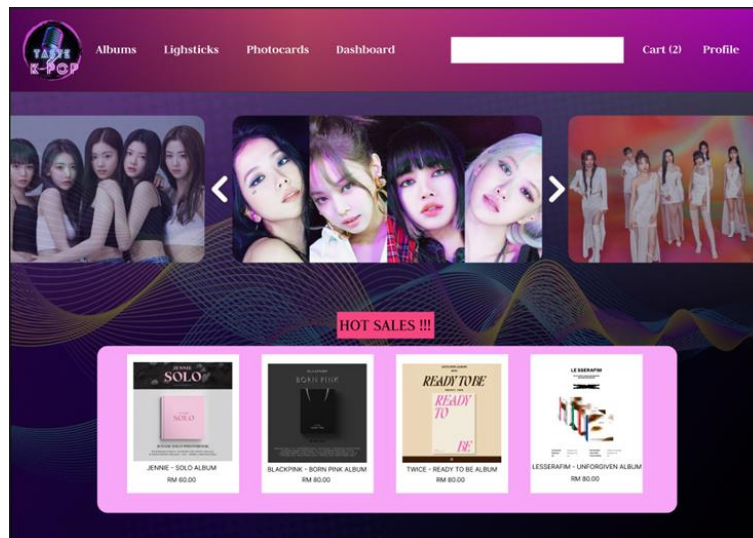


Fig. 8 Home Interface

### 4.8.3 Product Interface Design

After pressing any products at the navigation bar, it will bring the user to the product page that we selected as shown in Figure 9. In the page the user can browse all the products that is been listed and the user can use the search function to search and specific product.

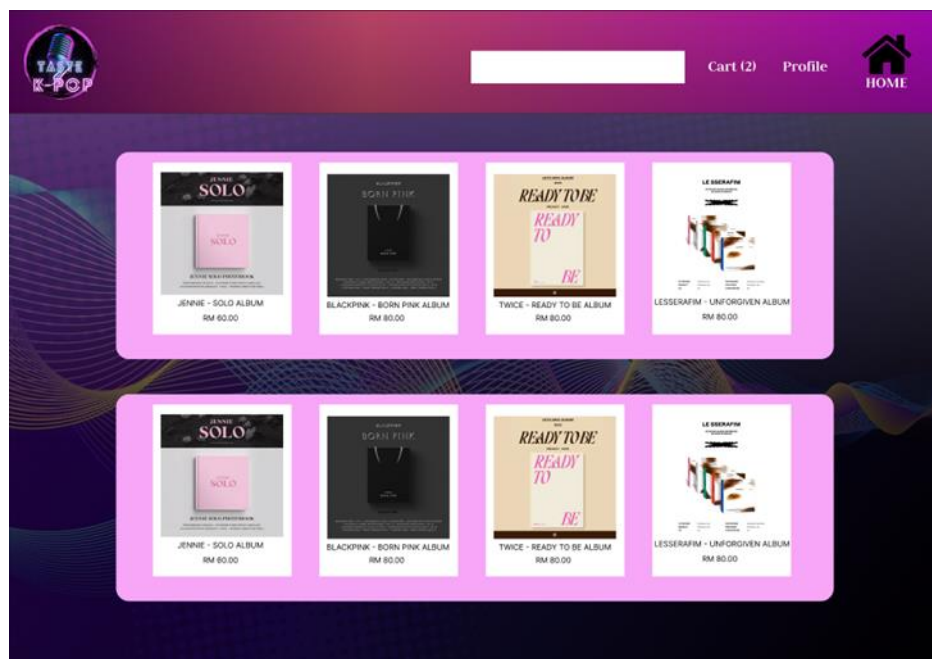
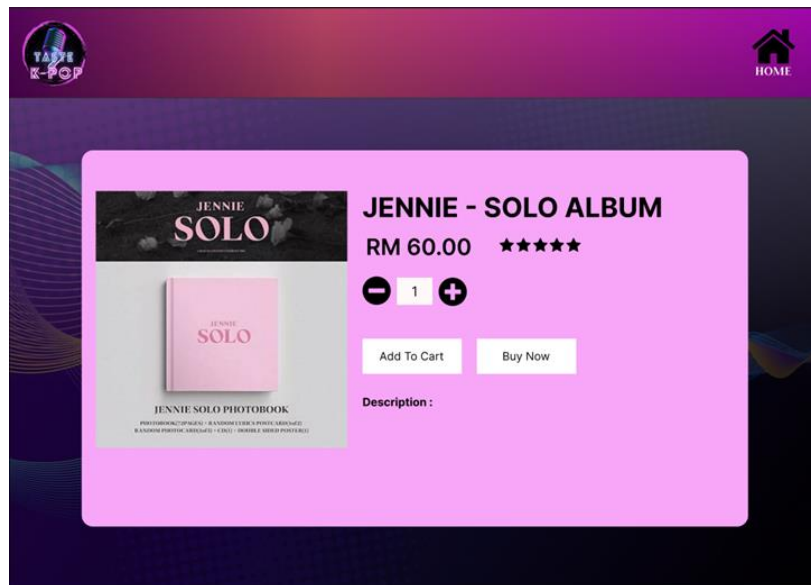


Fig. 9 Product Interface

### 4.8.4 Product View Interface Design

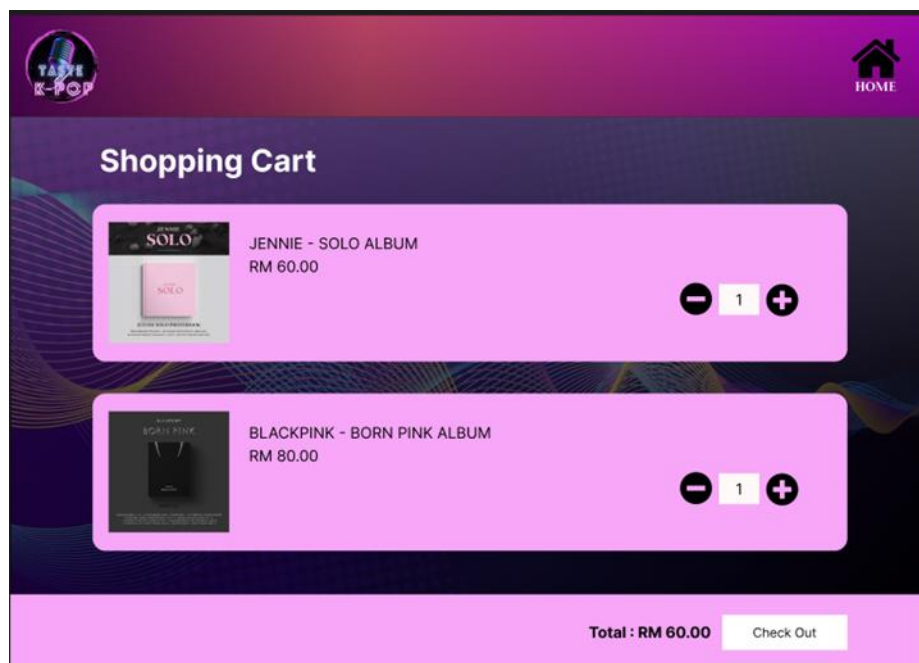
After choosing the product, the user can click at any product which will bring the user to product view page as shown in Figure 10. In this page, it shows a more detailed information of the product chosen by the user. The information contains the product name, product price, product rating, product quantity, and product description. There is also an add to cart and buy now button if the user wants to proceed to the next step.



**Fig. 10** Product Detail

#### 4.8.5 Add to cart Interface Design

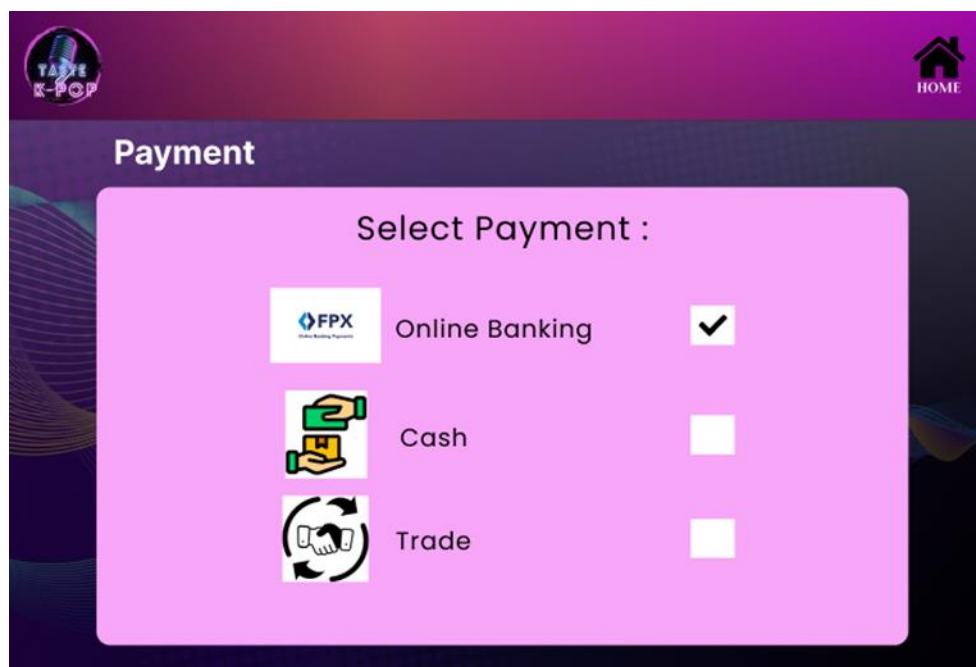
If the user decides to choose the add to cart option, the product will be added to the add to cart page as shown in Figure 11. The user can edit the product quantity or remove the product from add to cart. The user can check out the item that is needed to make payment to buy the product.



**Fig. 11** Add to cart

#### 4.8.6 Payment Interface Design

After pressing the checkout button, the system will bring the user to the payment method page as shown in Figure 12. In this page, the user can choose the suitable payment option that will be used to place an order for the product that is needed.



**Fig. 12** *Payment*

## 5. Implementation and Testing

The implementation phase is the process of building the entire Taste of KPOP Album Selling System. For websites, HTML, CSS, and PHP programming languages will be used for coding. Then, the software used is XAMPP. XAMPP is a distributor that provides servers and database modules [8]. The integrated development environment software used is Microsoft Visual Studio. The functional testing is done to make sure the system operates as intended.

### 5.1 Interface Design

The interface design for the Taste of KPOP album selling system was implemented using CSS and JavaScript. The design is built to be responsive and user friendly. The design has a simple navigation bar that is easy to understand. The following sections highlight the design and functionality of each module, showcasing how the application provides a seamless experience for all users.

#### 5.1.1 Sign Up and Login Page

The Sign Up and Login interface allows users to either log in or create a new account. The login screen includes fields for entering a username and password, along with a "Forgot Password?" link for account recovery. The sign-up screen allows new users to enter their username, email and password. Both screens feature a clean user interface.

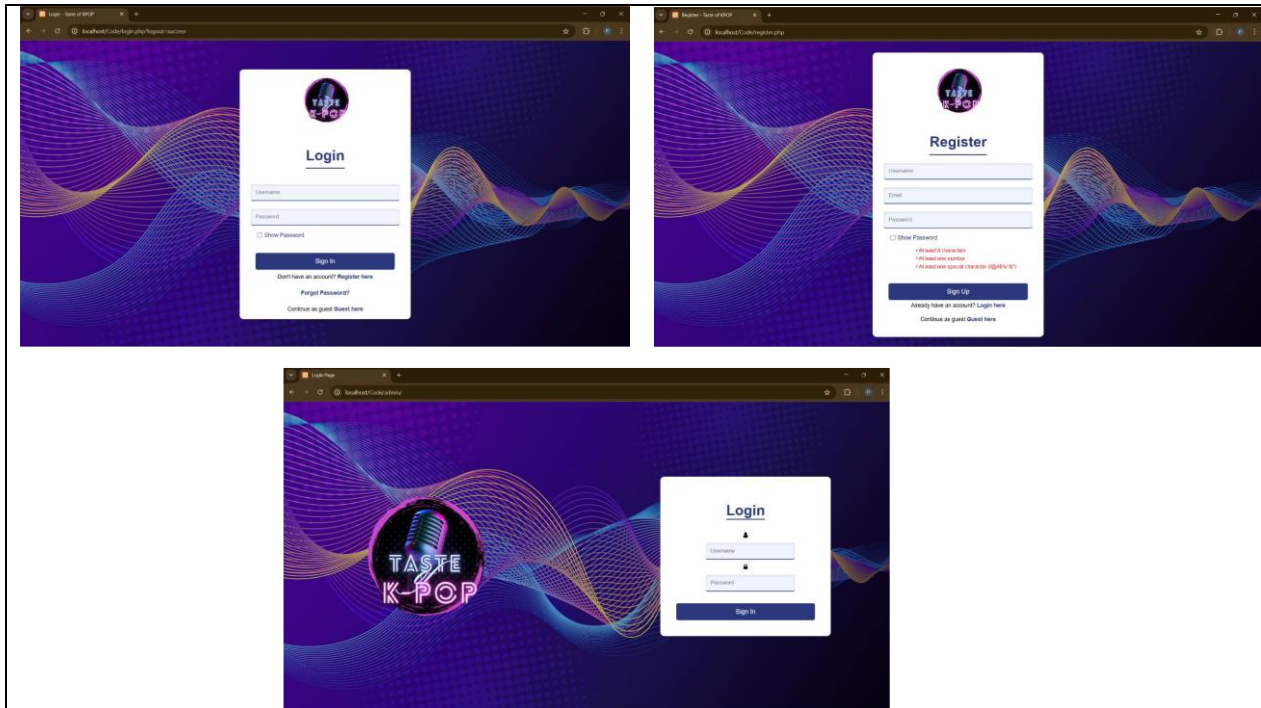


Fig. 13 Log in and Sign Up

### 5.1.2 Product Listing and Search

The Taste of KPOP system has three types of product listings. The listings contain albums, photocards and lightsticks. The three types of these products are listed in the systems navigation bar. The user can choose the type of product they want by clicking at the navigation bar. The navigation bar has a highlight function to tell the users on which page the user is currently on.

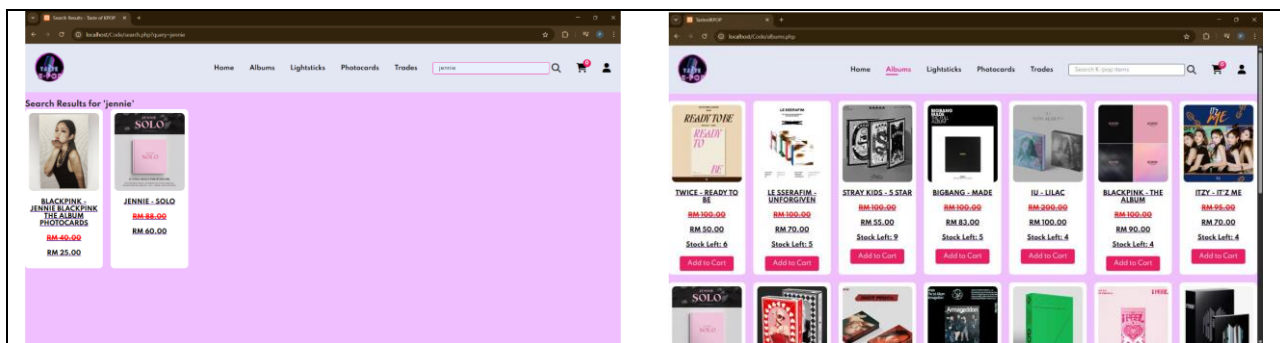


Fig. 14 Product Listing and Search

### 5.1.3 Shopping Cart and Checkout

The Taste of KPOP system has an add to cart function for the users to add their desired product that they want to buy on the spot or for later. The add to cart interface has some other functions such as where the user can adjust the quantity of the products that are in the cart [10].

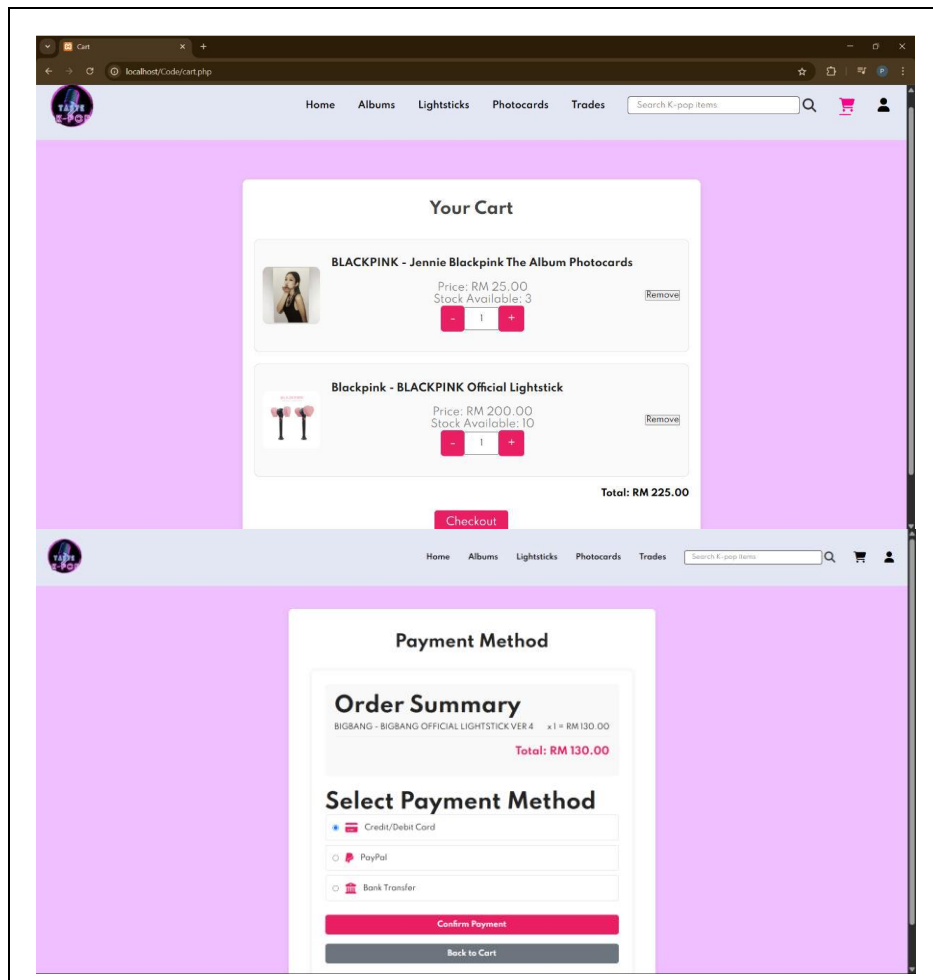


Fig. 15 Shopping Cart and Checkout

#### 5.1.4 Review and Rating System

The Taste of KPOP system has a function where the user can rate and review the item that is purchased after they receive the product. The rating is done by star style and there is text box to type the review. The user can rate and review the products on the purchase history page.

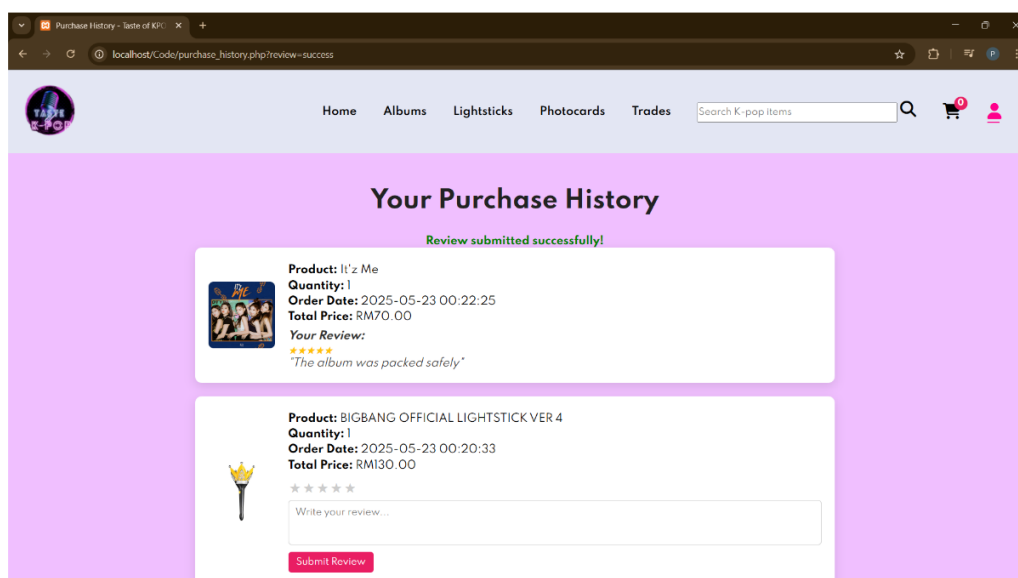
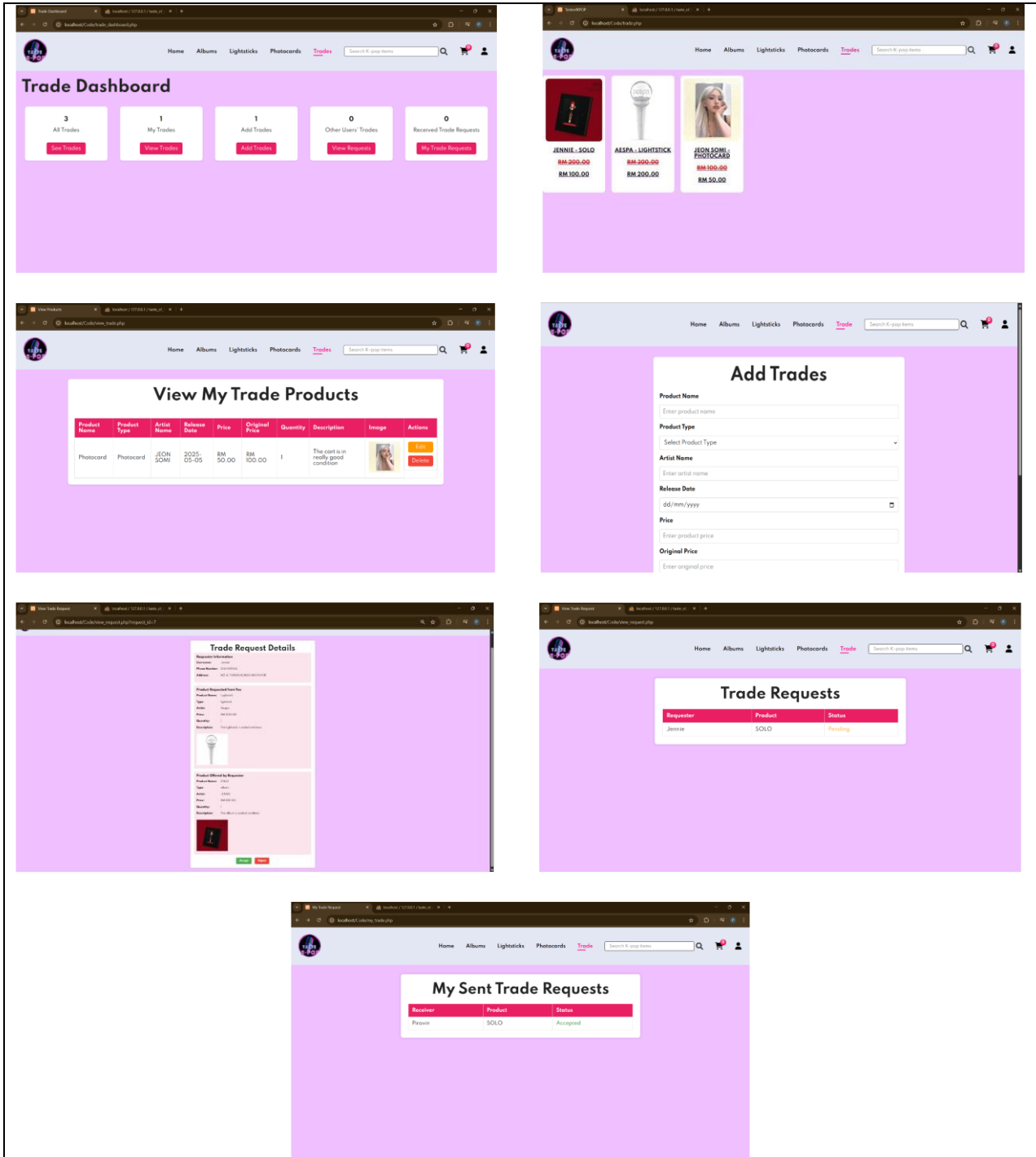


Fig. 16 Review and Rating

### 5.1.5 Trade

The Taste of KPOP system includes a special feature called trade, which allows users to exchange their products with others who are interested. Users can choose to accept or reject trade offers. The trade dashboard provides various functions for managing trades. In the trade market, users can browse products listed for trade by other users. On the trade product details page, users can view product information and request a trade. Users can also manage their own trade listings by editing or deleting them at any time. To list a product for trade, users need to fill in the required details. The trade request details page shows what another user is offering in exchange. Users can check the status of incoming trade requests, view the offer, and decide to accept or reject it. They can also view the status of the trade requests they've sent. The trade dashboard interface includes all these functions and their related code structure.



**Fig. 17 Trade**

### 5.1.6 Admin Dashboard

The admin dashboard includes several important functions. Admins can view registered users along with their details such as phone number and address. They can also view all user orders. Admins can add new products for users to browse and purchase. Once added, these products appear on the product listing page, where the admin can edit or delete them as needed. There's also a page to view top-selling products, where the admin can filter the statistics to see more detailed information.

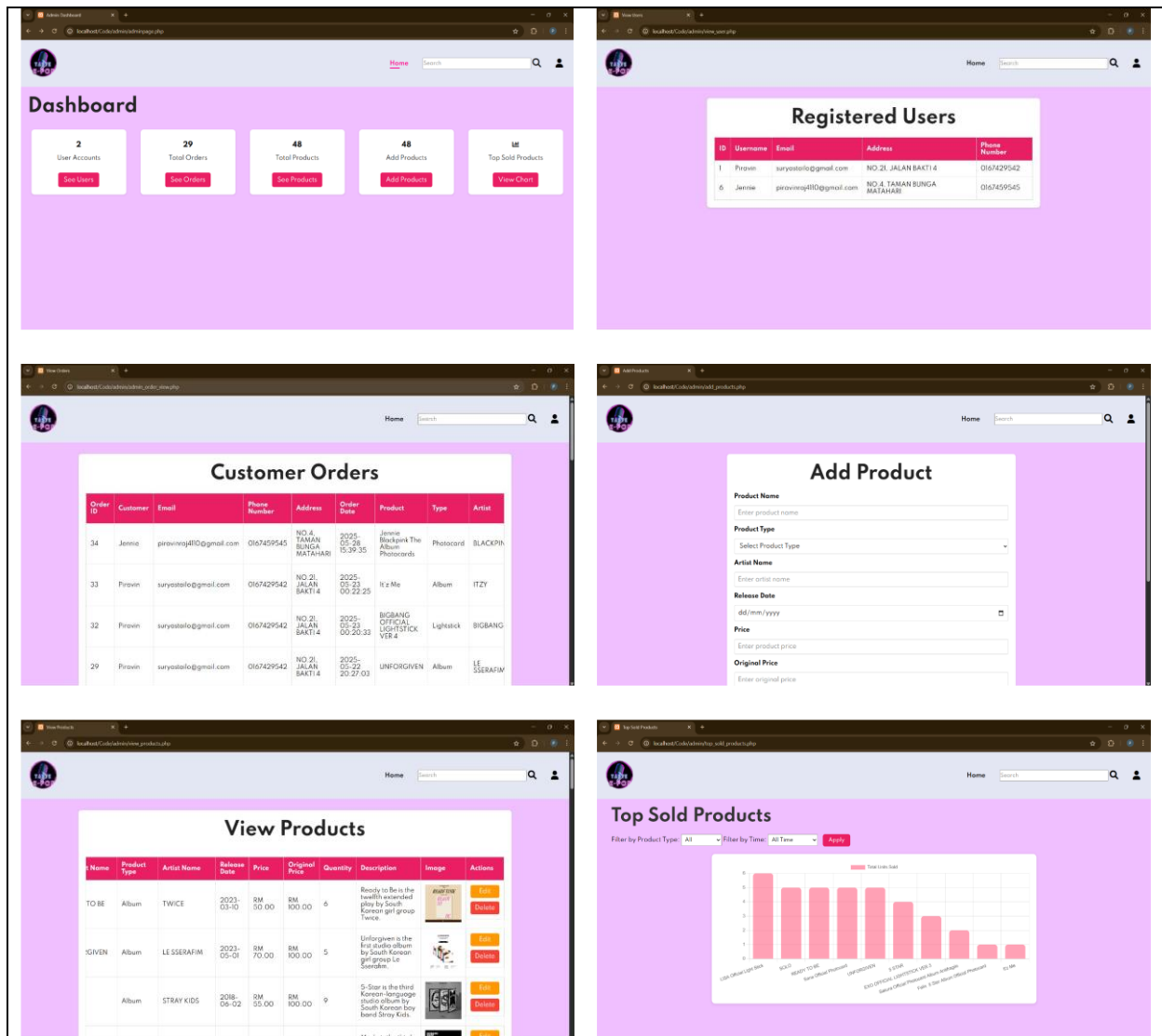


Fig. 18 Admin Dashboard

### 5.2 Testing

In this section, the test result for every result that has been carried out will be explained. Testing was done to ensure all the planned module works as required to meet a successful functional requirement [9].

**Table 6** *Test criteria*

| Test Case ID                         | Description                                                                                      | Expected Result                                                                              | Actual Result                                                                                     | Result |
|--------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------|
| <b>M1 Login and User Management</b>  |                                                                                                  |                                                                                              |                                                                                                   |        |
| M1-1                                 | To check whether user and admin can log in to the system using correct and incorrect credentials | Correct credentials should get to log in and incorrect credentials should show error message | Correct credentials can get to log in and incorrect credentials show invalid username or password | Pass   |
| M1-2                                 | To check whether a new user can create and account using username, email and password            | A new user can create and account using username, email and password                         | A new user can successfully create an account using username, email and password                  | Pass   |
| M1-3                                 | To check if after log in the system redirects to the homepage                                    | After log in the first page should see is the homepage                                       | After log in the first page is the homepage                                                       | Pass   |
| <b>M2 Product Listing and Search</b> |                                                                                                  |                                                                                              |                                                                                                   |        |
| M2-1                                 | To check whether user can navigate to each product category page                                 | User should navigate to the product page by choosing at the navigation bar                   | User can choose the product type and navigate to their own page by choosing at the navigation bar | Pass   |
| M2-2                                 | To check whether user can search the item that is needed                                         | User should be able to search item using either product name or artist name                  | User can search the specific name either by using the product name or artist name.                | Pass   |
| M2-3                                 | To check whether user can press the product to view the product details                          | User should be able to press the product to view the product details                         | User can press the product to view the product details                                            | Pass   |
| <b>M3 Shopping Cart and Checkout</b> |                                                                                                  |                                                                                              |                                                                                                   |        |
| M3-1                                 | To check whether hen user can add the desired product to the cart                                | User should be able to add their desired product to the cart                                 | User can add to cart their desired product                                                        | Pass   |
| M3-2                                 | To check whether the user can change the product quantity                                        | User should be able to change the product quantity in the product details page and cart page | User can change the product quantity in the product details page and cart page                    | Pass   |
| M3-3                                 | To check whether user can remove product from the cart                                           | User should be able to remove the product they don't want from the cart                      | User can remove the product they don't want from the cart                                         | Pass   |
| M3-4                                 | To check whether user can checkout to make a purchase                                            | Users should be able to checkout to make a purchase                                          | User can press the checkout button to make a purchase                                             | Pass   |

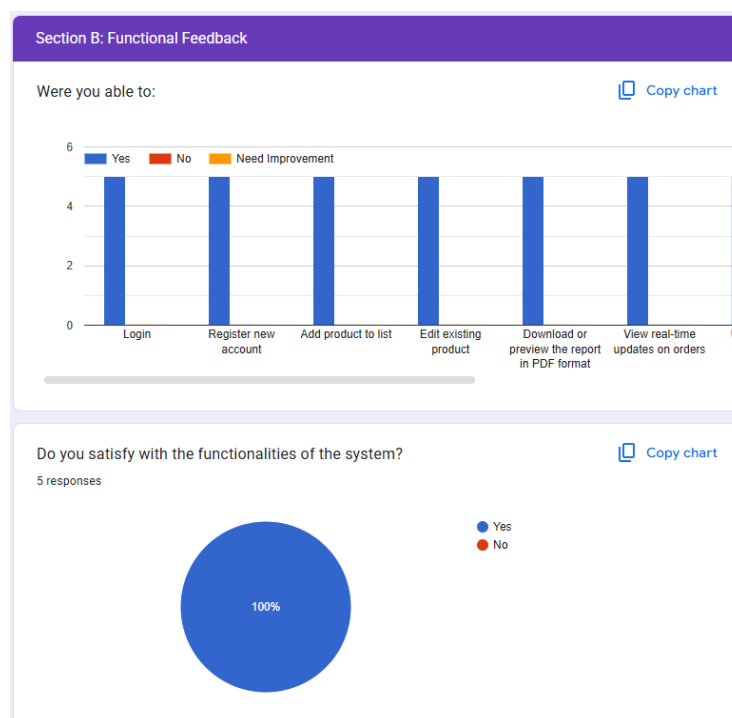
**Table 6 (cont)**

| Test Case ID | Description                                                                                | Expected Result                                                                                                  | Actual Result                                                                                                                            | Result |
|--------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>M4</b>    |                                                                                            | <b>Review and Rating</b>                                                                                         |                                                                                                                                          |        |
| M4-1         | To check whether the user can navigate to the order history page to view purchased product | User should be able to navigate to the order history page and the page should show the correct ordered products. | User can navigate to the order history page and the page is showing the correct ordered products.                                        | Pass   |
| M4-2         | To check whether the user can rate the product                                             | User should be able to give rating from 1 start to 5 stars for the purchased product.                            | User can give rating from 1 start to 5 stars for the purchased product.                                                                  | Pass   |
| M4-3         | To check whether the user can submit a review for the purchased product                    | User should be able to submit a review for the purchased product using the text box                              | User can submit a review by typing the review in the text box given and get a success message after submitting the review                | Pass   |
| <b>M5</b>    |                                                                                            | <b>Trade</b>                                                                                                     |                                                                                                                                          |        |
| M5-1         | To check whether the user can add their product for trade                                  | User should be able to add their product for trade                                                               | User can add product for trade by filling in some details and get a success message                                                      | Pass   |
| M5-2         | To check whether user can manage the product that they add for trade                       | User should be able to view their trade list and manage it.                                                      | User can view the list of products that they listed for trade and can edit or delete the products                                        | Pass   |
| M5-3         | To check whether the user can view the trade market                                        | User should be able to view the trade market                                                                     | User can view the trade market and view all product that is listed for trade by other users                                              | Pass   |
| M5-4         | To check whether the user can view the product details and send a request for trade        | User should be able to view the product details and send a trade request                                         | User can view the product details and send a trade request and need to fill up information for their own product that they want to offer | Pass   |
| M5-5         | To check whether the user can accept or reject the trade offer they received               | User should be able to accept or reject the trade offer they received                                            | User can accept or reject the trade offer they received, and opposite user can view the trade request status                             | Pass   |

**Table 6 (cont)**

| Test Case ID              | Description                                                                              | Expected Result                                                                       | Actual Result                                                                                                                                        | Result |
|---------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>M6 Admin Dashboard</b> |                                                                                          |                                                                                       |                                                                                                                                                      |        |
| M6-1                      | To check whether admin can view the registered users                                     | Admin should be able to view registered users' information                            | Admin can view the registered user's information such as username, email, address and phone number.                                                  | Pass   |
| M6-2                      | To check whether admin can view the orders list that made by the users                   | Admin should be able to view all the orders that the user made                        | Admin can view the total orders that have been made by all the users                                                                                 | Pass   |
| M6-3                      | To check whether admin can view the total products that is listed for sale in the system | Admin should be able to view the total products that is listed for sale in the system | Admin can view the total products that is listed for sale in the system and the system will show low stock for the products that quantity is below 5 | Pass   |
| M6-4                      | To check whether admin can add product for sale                                          | Admin should be able to add product for sale                                          | Admin can add product for sale by filling in some details and get a success message                                                                  | Pass   |
| M6-5                      | To check whether admin can view top sold products                                        | Admin should be able to view the top sold products                                    | Admin can view the top sold products in bar chart format and have filter for product type and filter by time of purchase.                            | Pass   |

### 5.2.1 User Acceptance Test

**Fig. 19 UAT Results 1**

The User Acceptance Test (UAT) for the Taste of KPOP system included evaluations of key functions such as user login, account registration, product listing, editing products and report generation. All five respondents successfully completed each function, indicating that the core features are working as intended. Additionally, 100% of users reported satisfaction with the system's functionalities. This feedback demonstrates that Taste of KPOP is functional, reliable, and meets user expectations for a smooth and efficient buying and selling experience, supporting the platform's objective of enhancing the K-pop merchandise marketplace.

## 6. Conclusion

In conclusion, the Taste of KPOP project successfully meets the needs of Malaysian K-pop fans by offering a dedicated e-commerce platform for buying, selling, and trading K-pop merchandise. Unlike general platforms such as Shopee or Lazada, this system focuses on features specific to K-pop items, including secure user registration, trusted seller ratings, and a product trading function. The system simplifies the process of finding authentic merchandise while promoting a safer and more focused shopping experience. However, limitations such as the lack of mobile app support, language options, and advanced search filters still exist. Future improvements will focus on addressing these limitations by enhancing usability, adding mobile compatibility, and expanding payment and shipping options. Overall, Taste of KPOP provides a solid foundation for a specialized, secure, and efficient marketplace tailored to the K-pop fan community in Malaysia.

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## Conflict of Interest

Authors declare that there is no conflict of interest regarding the publication of the paper.

## Author Contribution

The authors confirm contribution to the paper as follows: **study conception and design:** Piravinraj Sugumar, Mohamad Firdaus Ab Aziz; **data collection:** Piravinraj Sugumar, Mohamad Firdaus Ab Aziz; **analysis and interpretation of results:** Piravinraj Sugumar, Mohamad Firdaus Ab Aziz; **draft manuscript preparation:** Piravinraj Sugumar, Mohamad Firdaus Ab Aziz. All authors reviewed the results and approved the final version of the manuscript.

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