

VIETNAM GENERAL CONFEDERATION OF LABOR
TON DUC THANG UNIVERSITY
FACULTY OF INFORMATION TECHNOLOGY



**FINAL PROJECT
DEVELOPMENT OF ONLINE SALES
SYSTEM
ENTERPRISE SYSTEMS DEVELOPMENT
CONCEPTS**

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PROJECT COMPLETED AT TON DUC THANG UNIVERSITY

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Ho Chi Minh City, 9th November year 2022

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Chapter 1

TOPIC OVERVIEW

1.1 Introduction to the topic

With the explosion of information technology in all aspects of life, the Internet in general and sales websites are increasingly influencing businesses. Depending on the business field of each business, a sales website brings different benefits, but it is still mainly about promoting products and brands for that business. As the main platform for the transmission and exchange of information globally, the Internet has turned sales websites into doors for businesses to promote products and brands to all corners of the world. It can be said that a sales website is a place where businesses and customers meet through the products introduced on the website. This is a very modern and close approach to customers when the online consulting system is increasingly improved. With our theme, the website is built in accordance with the needs of the user. Allows users to consult, purchase and interact with admins on the system. Simple operation, easy to use and close to the user is our goal. Besides, the staff can also manage the items and customers more easily.

1.2 Topic goal

- Build application software with online connection to serve the sales needs of businesses and customers' purchases.
- Provide managers with a system to manage products, orders or revenue for the month.
- The website is easy to use, easy to manipulate and user-friendly. With an intelligent sorting system, customers can quickly search and make their purchases without spending much time and effort on the move.
- Customers can choose from a variety of payment methods as well as the time and place of delivery.

1.3 Scope of subject

Website can be used for many objects, only users with internet connection can operate on the website. The website is used by both employees, admins and shoppers and is for internal store use.

1.4 Practical significance

Building for users and sellers to have a place to go through the buying and selling process, and the main purpose is still to provide the best experience for users and distributors.

1.5 Report structure

The report consists of 5 parts with part 1 giving an overview of the topic, part 2 analyzing and designing the system, part 3 implementing the system, part 4 demo and part 5 acceptance after completing the product.

1.6 System Specification

Website selling shoes meets the needs of searching for new shoe models and making their own purchases from remote customers and suppliers. Through the Website, customers can view and look up information about shoes including shoe type, name, brand, price,...

Customers provide phone number, email (if desired) to register for a member account and receive incentives..

After accessing the Website, customers will search or refer to the types of shoes that customers want such as by name, type, manufacturer, ... Customers can come to a buying decision by adding products to the cart. . The shopping cart is a place to store information about the products that the customer intends to buy. Here, customers can change the quantity, add, delete, edit in their cart. The customer can then view other products and continue adding to the cart.

To buy products, customers will fill in the address of the place of delivery and choose a payment method (COD and bank card).

When providing complete information, customers can review and edit their orders. The system will notify the customer about the process of the order. If the customer accepts, then pays with the store and will close the purchase.

Customers can give feedback and rate the product.

The system owner will administer the entire system, can create records, assign permissions and manage employee and customer records.

Employees will be provided with an account to log into the system. Here, employees can perform decentralized functions such as creating and managing categories, browsing prod-

ucts, managing profiles and products of each seller. Employees are only allowed to change the password within their authority, not to edit personal information. Employee information includes employee ID, employee name, address, gender, phone number, email, photo.

The information displayed on the Website includes the homepage, about, contact, shopping cart.

Shoe information includes name, type, price, promotion, image, quantity, manufacturer. Manage orders including address, email, phone number, payment method of customer and product information

Chapter 2

SYSTEM ANALYSIS AND DESIGN

2.1 USE-CASE

Overview diagram of the online sales website system.

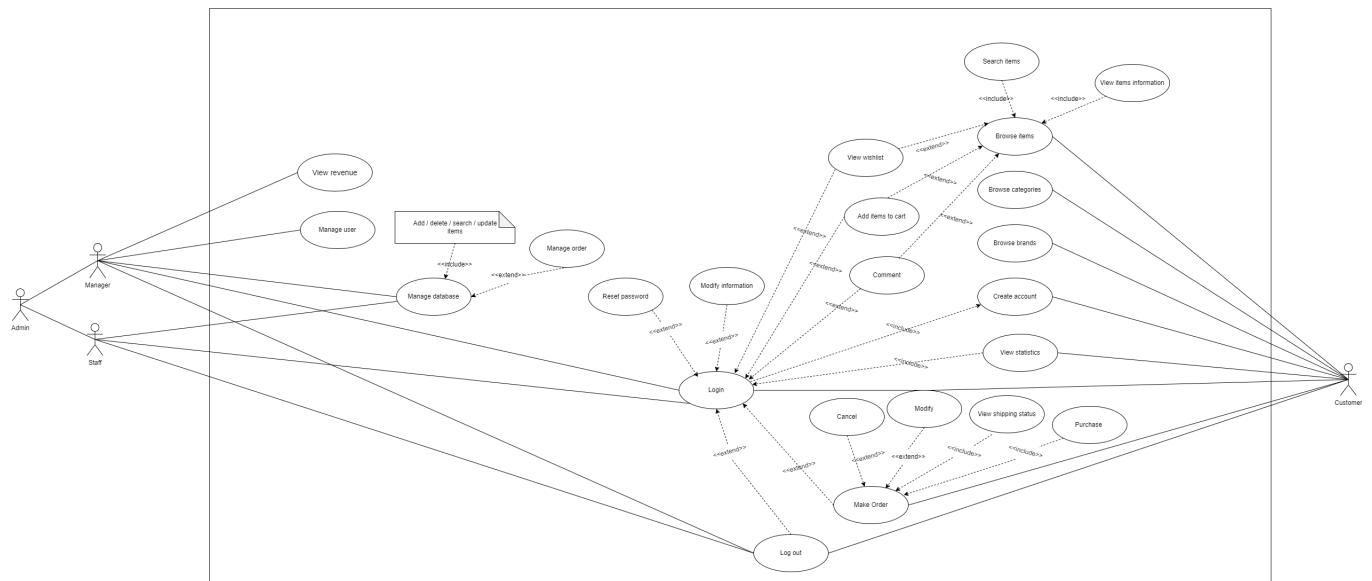


Image 2.1: Website system overview diagram.

2.1.1 List of actors and actor functions

Actors participating in the system and their functions.

Actor	Description
Manager	<ul style="list-style-type: none">- Manage system users (including Staff and Customer) and manage system functions.- There are many admins.- Manage items about products, descriptions, articles and orders.- Control order status and mark orders paid via paypal.- Can view sales statistics by product.
Customer	<ul style="list-style-type: none">- Customers need an account to log in to the system, view, choose to buy items and customize the quantity and then request delivery.- Customers must be signing up for an account if they don't have one or recovering their password when they forget their password.- Customers can search and view information about the items they want to buy.
Staff	<ul style="list-style-type: none">- Manage items about products, descriptions, articles and orders.- Control order status and mark orders as paid via paypal.

Image 2.2: List of actors and actor functions.

2.1.2 List of Use-cases of the system

ID	Use-case name	Description	Actor
UC-01	Login	The login function allows actors to log in , to the system depending on the type of account, they can log in in different ways.	Manager Customer Staff
UC-02	Manage Database	The manage database function allows users to manipulate the system's database such as: update items, delete items, search items, add items.	Manager Staff
UC-03	Manage Order	Actor can place order and view order status	Manager Staff
UC-04	Browse items	Actor can choose to view product information, add to cart or add to favorites.	Customer
UC-05	Browse categories	Actors can select or search for the brands they want to buy.	Customer
UC-06	Browse brands	Actor can place order and view order status	Customer
UC-07	Create account	Actor must have an account to use the functions inside the system. To get an account, the actor must register an account on the system.	Customer
UC-08	Manage user	Actor can manage and monitor user information	Manager Staff

UC-09	Update items	The function allows the actor to update information about the products sold in the database	Manager Staff
UC-10	Delete items	The function allows the actor to delete the products and its information in the database	Manager Staff
UC-11	Search items	The function allows the actor to search for products and their information in the database	Manager Staff
UC-12	Add items	The function allows the actor to add its products and information to the database	Manager Staff
UC-13	View statistic	Actor can see order statistics every month	Customer
UC-14	Modify information	The function allows the actor to modify personal information on the system	Manager Customer Staff
UC-15	Log out	The log out function is used for users to log out when the user exits the system when not in use	Manager Customer Staff
UC-16	Cancel	Actors can cancel an order placed when there is no longer a need to purchase or the defective item cannot be delivered to the customer.	Manager Customer Staff
UC-17	Modify	The function allows the actor to modify order information on the system.	Manager Customer Staff
UC-18	View shipping	The function allows the actor to view information status and order status on the system.	Manager Customer Staff
UC-19	View wishlist	Actor can see items already in favorites.	Customer
UC-20	Search items	The function allows the actor to search for products in the system.	Customer
UC-21	View items information	The function allows the actor to view the products and its information in the system.	Customer
UC-22	Add items to cart	The function allows the actor to add products and quantities to the cart before checkout.	Customer
UC-23	Purchase	Actor needs to pay by Paypal before completing the order process or after receiving the goods from the shipping company.	Customer
UC-24	Reset password	Actor has an account but forgot password, actor needs to get new password to login by email. company.	Manager Customer Staff
UC-25	Comment	Actors are allowed to comment on articles about products on the system (feedback, ...).	Customer
UC-26	View revenue	Actors can see the business's revenue by product	Manager

Table 2.1: Describe Use-case

2.1.3 Use-case specification

- Login

Use case: Log in	ID: UC-01	Priority: Must have		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - Users need to log in to the system to use the functions 				
Trigger:				
<ul style="list-style-type: none"> - User wants to log into the system 				
Precondition:				
<ul style="list-style-type: none"> - An account has been created and the device needs to have an internet connection. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Visit the website 2. Log in to the system with an admin or customer account 	1.1 Visit the website 2.1 User account authentication system 2.2 Return login results			
Postcondition:				
<ul style="list-style-type: none"> - User successfully logged in. - The system acknowledges that you have successfully logged in 				
Summary:				
Input	Source	Outputs	Destination	
<ul style="list-style-type: none"> - Visit website - Log in to the system 	Manager, Staff, Customer	<ul style="list-style-type: none"> - Logged in successfully 	Manager, Staff, Customer	

Image 2.3: Login use case specification sheet

- Manage Database

Use case: Manage Database	ID: UC-02	Priority: Must have								
Actor: Manager, Staff										
Description: - Users manage the data in the system										
Trigger: - Users manage the data in the system										
Precondition: - Login to the website successfully and the device needs to have an internet connection										
Normal Course: <ol style="list-style-type: none">1. Log in to the system with the admin account.2. Update, edit, add product information	Information of steps: <ol style="list-style-type: none">1.1 Account authentication system.1.2 Return login results2.1 The system updates the quantity of the item in the system.2.2 When out of stock, the user records the out-of-stock status and does not delete product information.2.3 When the goods are imported, the user will update the quantity and status, ...3.1 The system records updates on the database.									
Postcondition: - User successfully logged into admin account. - Have access to the data management system.										
Summary: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Input</th> <th style="text-align: center; padding: 5px;">Source</th> <th style="text-align: center; padding: 5px;">Outputs</th> <th style="text-align: center; padding: 5px;">Destination</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"> - Log in to the system. - Update item information </td> <td style="padding: 5px;"> Manager, Staff </td> <td style="padding: 5px;"> - Logged in successfully - Update successful </td> <td style="padding: 5px;"> Manager, Staff </td> </tr> </tbody> </table>			Input	Source	Outputs	Destination	- Log in to the system. - Update item information	Manager, Staff	- Logged in successfully - Update successful	Manager, Staff
Input	Source	Outputs	Destination							
- Log in to the system. - Update item information	Manager, Staff	- Logged in successfully - Update successful	Manager, Staff							

Image 2.4: Manage database use case specification sheet

- Make order

Use case: Make Order	ID: UC-03	Priority: Must have	
Actor: Manager, Staff, Customer			
Description:			
<ul style="list-style-type: none"> - Users order products in the system 			
Trigger:			
<ul style="list-style-type: none"> - Users select products and order products 			
Precondition:			
<ul style="list-style-type: none"> - Login to the website successfully and the device needs to have an internet connection. 			
Normal Course:		Information of steps:	
<ol style="list-style-type: none"> 1. Log in to the system with an admin or customer account 2. Choose to buy products 3. Order successfully 		<ol style="list-style-type: none"> 1.1 Account authentication system 1.2 Return login results 2.1 System of item recognition and order processing 2.2 Item Condition Check System 2.3 The system updates the status of the order 3.1 Order recording system. 	
Postconditions:			
<ul style="list-style-type: none"> - User successfully logged in admin or customer account. - Select items and order. 			
Summary:			
Input	Source	Outputs	Destination
<ul style="list-style-type: none"> - Log in to the system - Order 	Manager, Staff, Customer	<ul style="list-style-type: none"> - Logged in successfully - Order Success 	Manager, Staff, Customer

Image 2.5: Make order use case specification sheet

- Browse items

Use case: Browse items	ID: UC-04	Priority: Must have		
Actor: Customer				
Description: - Users view information and operations on products in the system				
Triggers: - Users manipulate the products				
Preconditions: - Login to the website successfully and the device needs to have an internet connection.				
Normal Course: 1. Log in to the system with the account customer. 2. Work on the product	Information of steps: 1.1 Account authentication system 1.2 Return login results 2.1 Displaying product information 2.2 Continuation of UC-19, UC-20, UC-21, UC-22, UC-23 or UC-26.			
Postconditions: - User successfully logged in customer account. - Actions on the item.				
Summary:				
Input	Source	Outputs	Destination	
- Log in to the system - Manipulation	Customer	- Logged in successfully - Operation completed	Customer	
	Customer		Customer	

Image 2.6: Browse items use case specification sheet

- Browse categories

Use case: Browse categories	ID: UC-05	Priority: Must have		
Actor: Customer				
Description:				
<ul style="list-style-type: none"> - Users choose the type of product that suits their needs (shoes, clothes) in the system 				
Trigger:				
<ul style="list-style-type: none"> - Users need to choose the type of product they want to buy 				
Precondition:				
<ul style="list-style-type: none"> - Login to the website successfully and the device needs to have an internet connection. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Log in to the system with the account customer 2. Select the type of product you want to buy 	1.1 Account authentication system 1.2 Return login results 2.1 Display the types of products available in the system 2.2 Displaying products in the same user-selected category			
Postcondition:				
<ul style="list-style-type: none"> - User successfully logged in customer account. - Select the type of product you want to buy. 				
Summary:				
Input	Source	Outputs	Destination	
<ul style="list-style-type: none"> - Log in to the system - Select product type 	<ul style="list-style-type: none"> Customer Customer 	<ul style="list-style-type: none"> - Logged in successfully - Similar products are displayed 	<ul style="list-style-type: none"> Customer Customer 	

Image 2.7: Browse categories use case specification sheet

- Browse brands

Use case: Browse brands	ID: UC-06	Priority: Must have		
Actor: Customer				
Description:				
<ul style="list-style-type: none"> - The user chooses the brand he wants to buy the product in the system 				
Trigger:				
<ul style="list-style-type: none"> - Users need to choose the brand they want to buy 				
Precondition:				
<ul style="list-style-type: none"> - The device needs to have an internet connection. 				
Normal Course:	Information of steps:			
<ul style="list-style-type: none"> 1. Choose the brand you want to buy 	1.1 Access logging system 1.2 Display the brands in the system 1.3 Showing items with the same brand			
Postcondition:				
<ul style="list-style-type: none"> - Select the brand you want to buy. 				
Summary:				
Input	Source	Outputs	Destination	
<ul style="list-style-type: none"> - Choose a brand 	Customer	<ul style="list-style-type: none"> - Products of selected brands 	Customer	

Image 2.8: Browse brands use case specification sheet

- Create account

Use case: Create account	ID: UC-07	Priority: Must have		
Actor: Customer				
Description:				
<ul style="list-style-type: none"> - Users who want to log in to the system need to register to have an account. 				
Triggers:				
<ul style="list-style-type: none"> - Users need to register an account 				
Preconditions:				
<ul style="list-style-type: none"> - The device needs to have an internet connection. - Have an email account. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Visit the website 2. Choose to register an account 3. Account confirmation 	1.1 Access logging system. 3.1 Enter your email address, username and password 3.2 Email verification message sending system 3.3 New account is saved to the system 3.4 Recording successful registration			
Postcondition:				
<ul style="list-style-type: none"> - Create Account Success 				
Summary:				
Input	Source	Outputs	Destination	
- Create a new account	Customer	- Create Account Success	Customer	

Image 2.9: Create account use case specification sheet

- Manage user

Use case: Manage user	ID: UC-08	Priority: Must have		
Actor: Manager				
Description:				
<ul style="list-style-type: none"> - Users manage the information of employees and customers. 				
Trigger:				
<ul style="list-style-type: none"> - Users who want to manage employee and customer information. 				
Precondition:				
<ul style="list-style-type: none"> - Successfully logged in with admin account - The device needs to ensure internet connection. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Log in to the system with manager account 2. User information management 	1.1 Account verification system. 1.2 Return login results. 2.1 Manipulation on user information. 2.2 The system records the changes.			
Postcondition:				
<ul style="list-style-type: none"> - Manage information of system users 				
Summary:				
Input	Source	Outputs	Destination	
<ul style="list-style-type: none"> - Log in to the system - Manage user information 	Manager	<ul style="list-style-type: none"> - Logged in successfully - Manage and manipulate successfully 	Manager	

Image 2.10: Manage user use case specification sheet

- Update items

Use case: Update items	ID: UC-09	Priority: Must have		
Actor: Manager, Staff				
Description:				
<ul style="list-style-type: none"> - Users update product information on the database. 				
Triggers:				
<ul style="list-style-type: none"> - User wants to update the product 				
Preconditions:				
<ul style="list-style-type: none"> - Login successfully with Manager, Staff account - The device needs to have an internet connection. 				
Normal Course:	Information of steps:			
1. Log in to the system with an Manager, Staff account 2. Update information 3. Update complete	1.1 Account authentication system 1.2 Return login results 2.1 Update information on quantity, size, ... of items 2.2 The system records the updated information 3.1 The system updates the changes in the database			
Postconditions:				
<ul style="list-style-type: none"> - Item update 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Log in to the system - Update item information 	Manager, Staff	<ul style="list-style-type: none"> - Logged in successfully - The update is complete and archived by the system 		

Image 2.11: Update items use case specification sheet

- Delete items

Use case: Delete items	ID: UC-10	Priority: Must have	
Actor: Manager, Staff			
Description:			
<ul style="list-style-type: none"> - The user deletes the product and its information from the database. 			
Triggers:			
<ul style="list-style-type: none"> - User wants to delete product 			
Preconditions:			
<ul style="list-style-type: none"> - Login successfully with Manager, Staff account - The device needs to have an internet connection. 			
Normal Course:		Information of steps:	
1. Log in to the system with an Manager, Staff account 2. Delete product 3. Deletion is complete		1.1 Account authentication system 1.2 Return login results 2.1 Delete selected products 2.2 Change recording system 3.1 The system updates the changes in the database	
Postconditions:			
<ul style="list-style-type: none"> - Delete item 			
Summary:			
Input Source Outputs Destination			
<ul style="list-style-type: none"> - Log in to the system - Delete item 	Manager, Staff Manager, Staff	<ul style="list-style-type: none"> - Logged in successfully - Deletion is complete and stored by the system 	Manager, Staff

Image 2.12: Delete items use case specification sheet

- Search items

Use case: Search items	ID: UC-11	Priority: Must have
Actor: Manager, Staff		
Description:		
<ul style="list-style-type: none"> - Users search for products and their information on the database. 		
Triggers:		
<ul style="list-style-type: none"> - Users want to find products 		
Preconditions:		
<ul style="list-style-type: none"> - Login successfully with Manager, Staff account - The device needs to have an internet connection. 		
Normal Course:		Information of steps:
1. Log in to the system with an Manager, Staff account 2. Find products 3. Search is complete		1.1 Account authentication system 1.2 Return login results 2.1 Find products 2.2 The system displays matching products 3.1 Database recording system
Postconditions:		
<ul style="list-style-type: none"> - Find items 		
Summary:		
Input Source Outputs Destination		
<ul style="list-style-type: none"> - Log in to the system - Find items 		<ul style="list-style-type: none"> - Logged in successfully - Search complete

Image 2.13: Search items use case specification sheet

- Add items

Use case: Add items	ID: UC-12	Priority: Must have
Actor: Manager, Staff		
Description:		
<ul style="list-style-type: none"> - The user adds the product and its information to the database. 		
Triggers:		
<ul style="list-style-type: none"> - User wants to add product 		
Preconditions:		
<ul style="list-style-type: none"> - Login successfully with Manager, Staff account - The device needs to have an internet connection. 		
Normal Course:		Information of steps:
1. Log in to the system with an Manager, Staff account 2. More products 3. Add complete		1.1 Account authentication system 1.2 Return login results 2.1 Add products by category 2.2 Product record system added in database 3.1 Database storage system
Postconditions:		
<ul style="list-style-type: none"> - More items 		
Summary:		
Input Source Outputs Destination		
- Log in to the system - More items		Manager, Staff Manager, Staff
		- Logged in successfully - Add complete
		Manager, Staff

Image 2.14: Add items use case specification sheet

- View statistic

Use case: View statistics	ID: UC-13	Priority: Must have		
Actor: Customer				
Description:				
<ul style="list-style-type: none"> - Users can check order data for each month. 				
Triggers:				
<ul style="list-style-type: none"> - The user would want to check order data every month. 				
Preconditions:				
<ul style="list-style-type: none"> - Successfully logged in with user's account - The device must be connected to the internet. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Enter the customer account into the system. 2. View statistics 	1.1 Account verification system 1.2 Return login information 2.1 The system displays the purchases that were placed during the month.			
Postconditions:				
<ul style="list-style-type: none"> - View order statistics 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Access the system. - View statistics 	Customer Customer	<ul style="list-style-type: none"> - Login success - View statistics 	Customer	

Image 2.15: View statistic use case specification sheet

- Modify information

Use case: Modify information	ID: UC-14	Priority: Must have		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - Users update their personal information on the system. 				
Triggers:				
<ul style="list-style-type: none"> - The user modifies personal information 				
Preconditions:				
<ul style="list-style-type: none"> - Successfully logged in using a customer or Manager, Staffistrator account - The device must be connected to the internet. 				
Normal Course:	Information of steps:			
1. Log in to the system using a customer or Manager, Staffistrator account. 2. Information should be updated. 3. Successful update	1.1 Account verification system 1.2 Return login information 2.1 The user modifies personal information. 2.2 Update the recording system 3.1 The database is where the system saves data.			
Postconditions:				
<ul style="list-style-type: none"> - Modify personal information 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Log in to the system - Update information 	Manager, Staff, Customer Manager, Staff, Customer	<ul style="list-style-type: none"> - Login success - Successfully changed information 	Manager, Staff, Customer	

Image 2.16: Modify information use case specification sheet

- Log out

Use case: Log out	ID: UC-15	Priority: Must have		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - User logs out, exits the system 				
Triggers:				
<ul style="list-style-type: none"> - User wants to log out 				
Preconditions:				
<ul style="list-style-type: none"> - Successfully logged in with customer or Manager, Staff account - The device needs to have an internet connection. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Log in to the system with customer or Manager, Staff account 2. Log out 3. Sign out successful 	<ol style="list-style-type: none"> 1.1 Account authentication system 1.2 Return login results 2.1 User chooses to log out 3.1 Return logout result 			
Postconditions:				
<ul style="list-style-type: none"> - Log out of the system 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Log in to the system - Log out 	<ul style="list-style-type: none"> Manager, Staff Customer Manager, Staff Customer 	<ul style="list-style-type: none"> - Logged in successfully - Sign out successful 	<ul style="list-style-type: none"> Manager, Staff Customer 	

Image 2.17: Log out use case specification sheet

- Cancel

Use case: Cancel	ID: UC-16	Priority: Must have		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - Users can cancel an order placed when there is no longer a need to purchase or defective goods cannot be sent 				
Triggers:				
<ul style="list-style-type: none"> - User wants to cancel order 				
Preconditions:				
<ul style="list-style-type: none"> - Successfully logged in with customer or Manager, Staff account - The device needs to have an internet connection. - There are orders placed and not yet delivered. 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Log in to the system with customer or Manager, Staff account 2. Cancel order 	<ol style="list-style-type: none"> 1.1 Account authentication system 1.2 Return login results 2.1 User selects an order and presses cancel 2.2 The system updates the quantity of the item and refunds the buyer when the order has been paid Paypal 			
Postconditions:				
<ul style="list-style-type: none"> - Cancellation of an order 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Log in to the system - Cancel order 	<p>Manager, Staff, Customer</p>	<ul style="list-style-type: none"> - Logged in successfully - Canceled order successfully 	<p>Manager, Staff, Customer</p>	

Image 2.18: Cancel use case specification sheet

- Modify

Use case: Modify	ID: UC-17	Priority: Must have								
Actor: Admin, Customer										
Description:										
<ul style="list-style-type: none"> - Users can change the order information placed (recipient's name, phone number, address, ...) 										
Triggers:										
<ul style="list-style-type: none"> - User wants to change order information 										
Preconditions:										
<ul style="list-style-type: none"> - Successfully logged in with customer or admin account - The device needs to have an internet connection. - There are orders placed and not yet delivered. 										
Normal Course:		Information of steps:								
<ol style="list-style-type: none"> 1. Log in to the system with customer or admin account 2. Change order information 3. Successful change 		<ol style="list-style-type: none"> 1.1 Account authentication system 1.2 Return login results 2.1 User selects order and changes allowed information 2.2 Order status check system 2.3 The system updates order information 3.1 Return the result of order information change 								
Postconditions:										
<ul style="list-style-type: none"> - Change order information 										
Summary:										
<table border="1"> <thead> <tr> <th>Input</th> <th>Source</th> <th>Outputs</th> <th>Destination</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> - Log in to the system - Change order </td><td> <ul style="list-style-type: none"> Admin, Customer Admin, Customer </td><td> <ul style="list-style-type: none"> - Logged in successfully - Change order information successfully </td><td> <ul style="list-style-type: none"> Admin, Customer </td></tr> </tbody> </table>			Input	Source	Outputs	Destination	<ul style="list-style-type: none"> - Log in to the system - Change order 	<ul style="list-style-type: none"> Admin, Customer Admin, Customer 	<ul style="list-style-type: none"> - Logged in successfully - Change order information successfully 	<ul style="list-style-type: none"> Admin, Customer
Input	Source	Outputs	Destination							
<ul style="list-style-type: none"> - Log in to the system - Change order 	<ul style="list-style-type: none"> Admin, Customer Admin, Customer 	<ul style="list-style-type: none"> - Logged in successfully - Change order information successfully 	<ul style="list-style-type: none"> Admin, Customer 							

Image 2.19: Modify use case specification sheet

- View shipping status

Use case: View shipping status	ID: UC-18	Priority: Must have		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - Users can view information, order status placed (recipient's name, phone number, address, ...) 				
Triggers:				
<ul style="list-style-type: none"> - User wants to see order information 				
Preconditions:				
<ul style="list-style-type: none"> - Successfully logged in with customer or Manager, Staff account - The device needs to have an internet connection. - There are orders placed and not yet/being delivered. 				
Normal Course:	Information of steps:			
1. Log in to the system with customer or Manager, Staff account 2. View order information	1.1 Account authentication system 1.2 Return login results 2.1 User selects order and view information and order status 2.2 The system displays the user's order.			
Postconditions:				
<ul style="list-style-type: none"> - View order information 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Log in to the system - View orders 	Manager, Staff, Customer Manager, Staff,	<ul style="list-style-type: none"> - Logged in successfully - View successful 	Manager, Staff, Customer	

Image 2.20: View shipping status use case specification sheet

- View wishlist

Use case: View wishlist	ID: UC-19	Priority: Maybe not
Actor: Customer		
Description:		
<ul style="list-style-type: none"> - User can see what items are in favorites 		
Triggers:		
<ul style="list-style-type: none"> - User wants to see favorites 		
Preconditions:		
<ul style="list-style-type: none"> - Successfully logged in with customer account. - The device needs to have an internet connection. 		
Normal Course:		Information of steps:
<ol style="list-style-type: none"> 1. Log in to the system with the customer account 2. View favorites 		<ol style="list-style-type: none"> 1.1 Account authentication system 1.2 Return login results 2.1 User selects favorites and view products 2.2 The system displays the user's favorite category
Postconditions:		
<ul style="list-style-type: none"> - View favorites 		
Summary:		
Input Source Outputs Destination		
<ul style="list-style-type: none"> - Log in to the system - View favorites 	Customer	<ul style="list-style-type: none"> - Logged in successfully - View favorites successfully

Image 2.21: View wishlist use case specification sheet

- Search items

Use case: Search items	ID: UC-20	Priority: Must have	
Actor: Customer			
Description:			
<ul style="list-style-type: none"> - Users can search for items in the system 			
Triggers:			
<ul style="list-style-type: none"> - Users want to search for products 			
Preconditions:			
<ul style="list-style-type: none"> - Successfully logged in with customer account. - The device needs to have an internet connection. 			
Normal Course:		Information of steps:	
1. Log in to the system with the customer account 2. Product Search		1.1 Account authentication system 1.2 Return login results 2.1 User enters product name 2.2 The system returns search results	
Postconditions:			
<ul style="list-style-type: none"> - Search product 			
Summary:			
Input Source Outputs Destination			
<ul style="list-style-type: none"> - Log in to the system - Search product 	Customer Customer	<ul style="list-style-type: none"> - Logged in successfully - Successful search 	Customer

Image 2.22: Search items use case specification sheet

- View items information

Use case: View items information	ID: UC-21	Priority: Must have	
Actor: Customer			
Description:			
<ul style="list-style-type: none"> - Users can view the information of the items in the system 			
Triggers:			
<ul style="list-style-type: none"> - User wants to see product information 			
Preconditions:			
<ul style="list-style-type: none"> - Successfully logged in with customer account. - The device needs to have an internet connection. 			
Normal Course:		Information of steps:	
1. Log in to the system with the customer account 2. View products		1.1 Account authentication system 1.2 Return login results 2.1 Users view product information	
Postconditions:			
<ul style="list-style-type: none"> - View products 			
Summary:			
Input Source Outputs Destination			
<ul style="list-style-type: none"> - Log in to the system - View products 	Customer Customer	<ul style="list-style-type: none"> - Logged in successfully - View complete 	Customer

Image 2.23: View items information use case specification sheet

- Add items to cart

Use case: Add items to cart	ID: UC-23	Priority: Must have	
Actor: Customer			
Description:			
<ul style="list-style-type: none"> - User can add items to cart before checkout 			
Triggers:			
<ul style="list-style-type: none"> - The user wants to add the product to the cart 			
Preconditions:			
<ul style="list-style-type: none"> - Successfully logged in with customer account. - The device needs to have an internet connection. 			
Normal Course:		Information of steps:	
1. Log in to the system with the customer account 2. More products		1.1 Account authentication system 1.2 Return login results 2.1 The user adds the product he wants to buy to the cart 2.2 The system updates the cart continuously	
Postconditions:			
<ul style="list-style-type: none"> - Add product to cart 			
Summary:			
Input Source Outputs Destination			
<ul style="list-style-type: none"> - Log in to the system - Add product to cart 	<ul style="list-style-type: none"> Customer Customer 	<ul style="list-style-type: none"> - Logged in successfully - More success 	<ul style="list-style-type: none"> Customer Customer

Image 2.24: Add items to cart use case specification sheet

- Purchase

Use case: Purchase	ID: UC-24	Priority: Must have
Actor: Customer		
Description:		
<ul style="list-style-type: none"> - Users need to pay before the order is delivered 		
Triggers:		
<ul style="list-style-type: none"> - User pays order 		
Preconditions:		
<ul style="list-style-type: none"> - Successfully logged in with customer account. - The device needs to have an internet connection. - Have a Paypal account if paying by e-commerce service 		
Normal Course:		Information of steps:
<ol style="list-style-type: none"> 1. Log in to the system with the customer account 2. Pay 		<ol style="list-style-type: none"> 1.1 Account authentication system 1.2 Return login results 2.1 Confirm bank account if paying by Paypal 2.1.1 Payment of orders 2.1.2 Update paid orders on the system 2.2 Payment upon receipt of goods 2.3 The system displays successful payment
Postconditions:		
<ul style="list-style-type: none"> - Add product to cart 		
Summary:		
Input Source Outputs Destination		
<ul style="list-style-type: none"> - Log in to the system - Payment orders 	Customer Customer	<ul style="list-style-type: none"> - Logged in successfully - Payment success Customer Customer

Image 2.25: Purchase use case specification sheet

- Reset password

Use case: Reset password	ID: UC-25	Priority: Must have		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - Users need to recover their password in case they forget their password 				
Triggers:				
<ul style="list-style-type: none"> - User retrieves password 				
Preconditions:				
<ul style="list-style-type: none"> - The device needs to have an internet connection. - The account already exists in the system. 				
Normal Course:	Information of steps:			
1. Visit website 2. Reset password	1.1 Access confirmation system 2.1 User enters username and chooses forgot password 2.2 The system returns the existence of username 2.3 User enters the email used to register the account and confirm the login 2.4 Enter a new password 2.5 New password recording system 2.6 Password reset successfully			
Postconditions:				
<ul style="list-style-type: none"> - Reset password 				
Summary:				
Input Source Outputs Destination				
- Reset password	Manager, Staff, Customer	- Reset is successful	Manager, Staff, Customer	

Image 2.26: Reset password use case specification sheet

- Comment

Use case: Comment	ID: UC-26	Priority: Maybe not		
Actor: Manager, Staff, Customer				
Description:				
<ul style="list-style-type: none"> - Users comment on articles on the system 				
Triggers:				
<ul style="list-style-type: none"> - Users comment on posts 				
Preconditions:				
<ul style="list-style-type: none"> - The device needs to have an internet connection. - Successfully logged in with customer or Manager, Staff account 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Log in to the system with customer or Manager, Staff account 2. Comment 	1.1 Account authentication system 1.2 Return login results 2.1 Users comment on posts on the system 2.2 Comment recording system			
Postconditions:				
<ul style="list-style-type: none"> - Comment on the post 				
Summary:				
Input Source Outputs Destination				
<ul style="list-style-type: none"> - Log in to the system - Comment 	Customer Customer	<ul style="list-style-type: none"> - Logged in successfully - Successful comment 	Customer Customer	

Image 2.27: Comment use case specification sheet

- View revenue

Use case: View revenue	ID: UC-27	Priority: Must have		
Actor: Manager				
Description:				
<ul style="list-style-type: none"> - Users see business revenue statistics 				
Trigger:				
<ul style="list-style-type: none"> - Users view revenue statistics 				
Precondition:				
<ul style="list-style-type: none"> - The device needs to have an internet connection. - Successfully logged in with manager account 				
Normal Course:	Information of steps:			
<ol style="list-style-type: none"> 1. Log in to the system with the account manager 2. View stats 	1.1 Account verification system 1.2 Return login results 2.1 Users view statistics by product			
Postcondition:				
<ul style="list-style-type: none"> - View sales statistics by product 				
Summary:				
Input	Source	Outputs	Destination	
<ul style="list-style-type: none"> - Log in to the system - View revenue 	Manager Manager	<ul style="list-style-type: none"> - Logged in successfully - Revenue statistics 	Manager Manager	

Image 2.28: View revenue use case specification sheet

2.2 DATA FLOW DIAGRAM

2.2.1 Context Diagram

Context diagram describes an overview of the flow of data moving in the system.

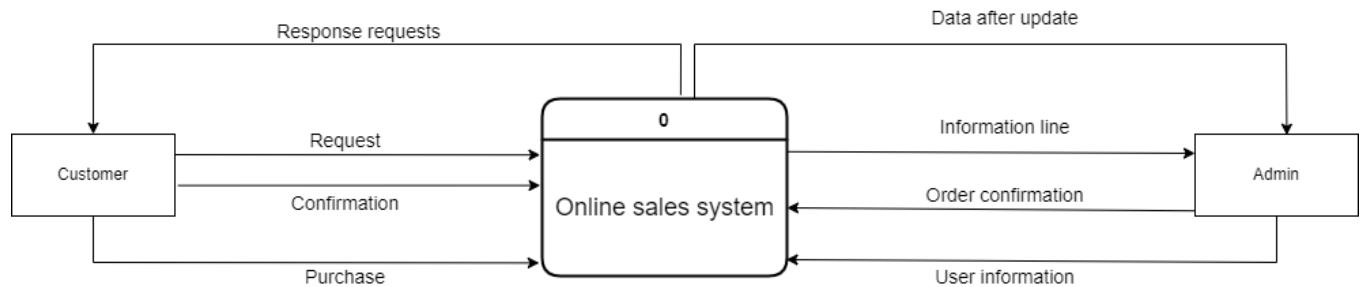


Image 2.29: Context diagram

2.2.2 Fragments in level-0

- Login process

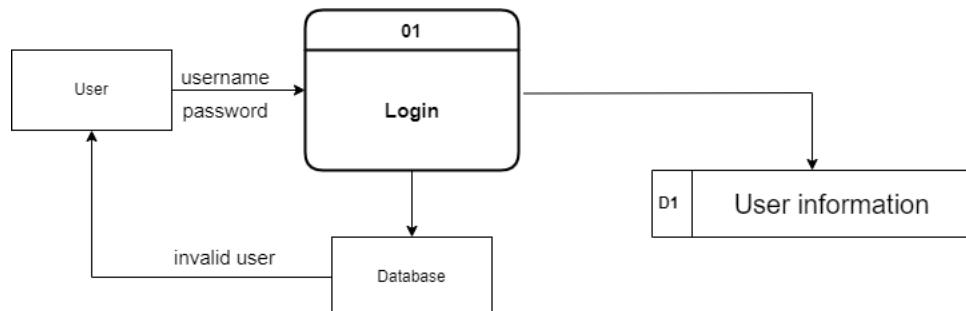


Image 2.30: DFD fragments of UC-01

- Manage database process

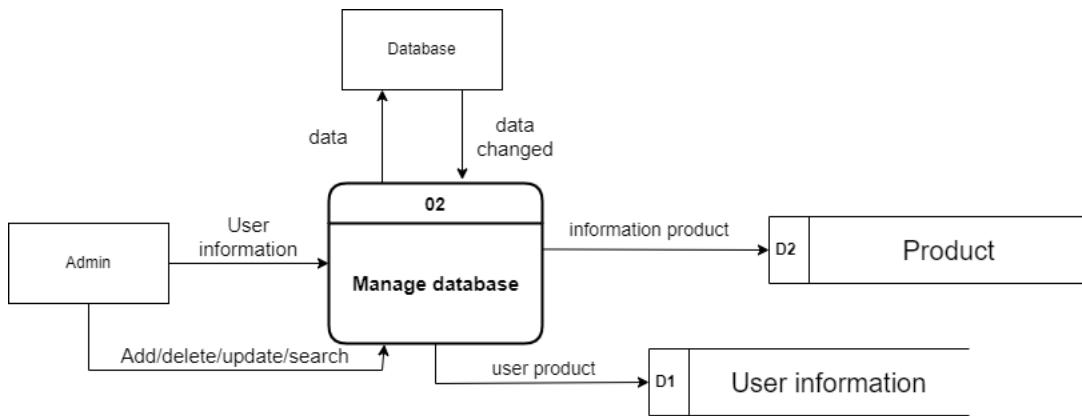


Image 2.31: DFD fragments of UC-02

- Make order process

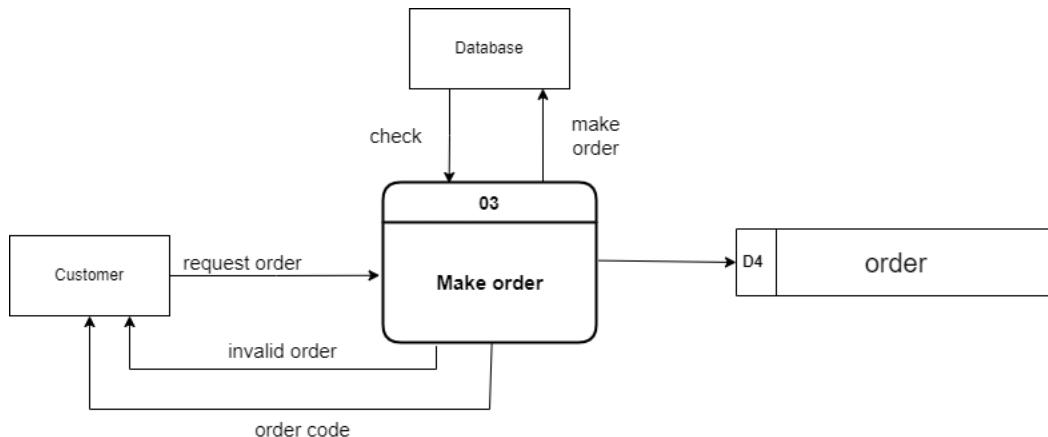


Image 2.32: DFD fragments of UC-03

- Browse items process

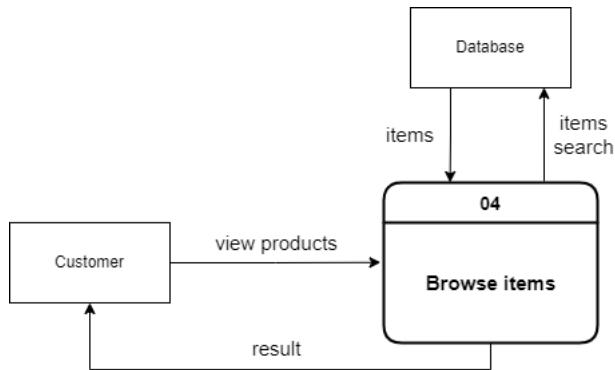


Image 2.33: DFD fragments of UC-04

- Browse categories process

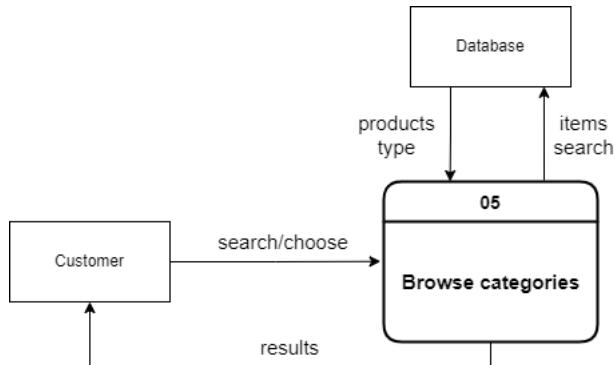


Image 2.34: DFD fragments of UC-05

- Browse brands process

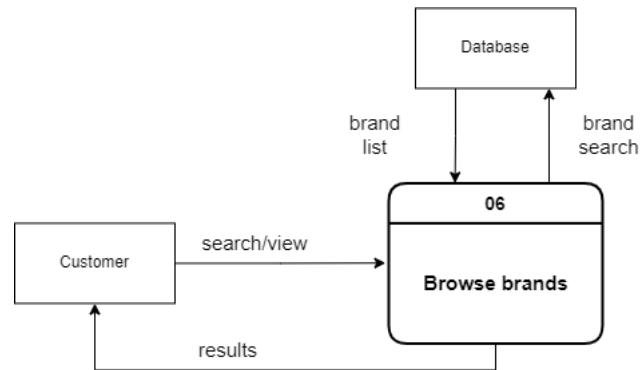


Image 2.35: DFD fragments of UC-06

- Create account process

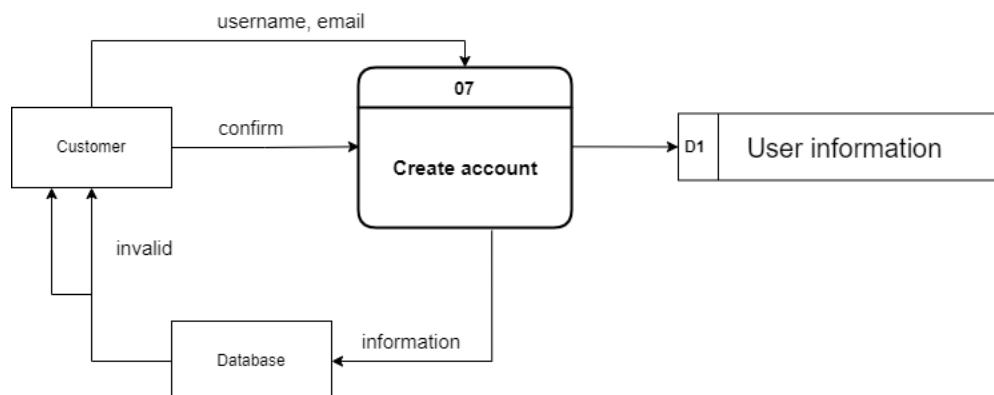


Image 2.36: DFD fragments of UC-07

- View statistic process

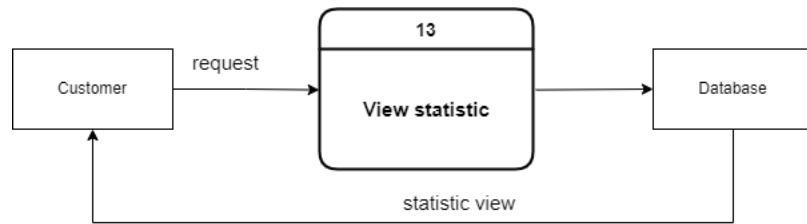


Image 2.37: DFD fragments of UC-13

- Modify information process

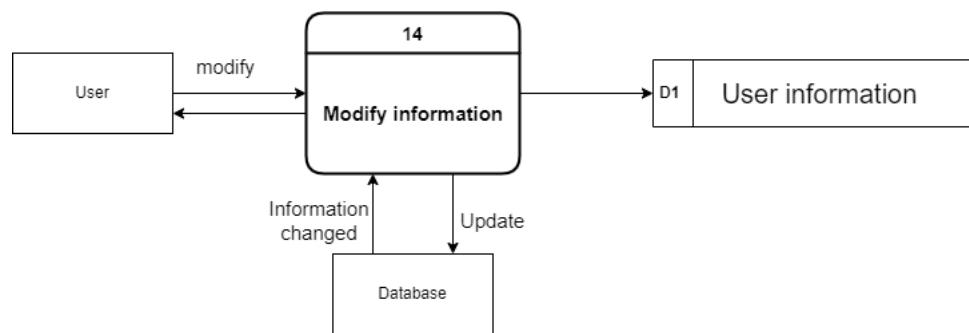


Image 2.38: DFD fragments of UC-14

- Log out process

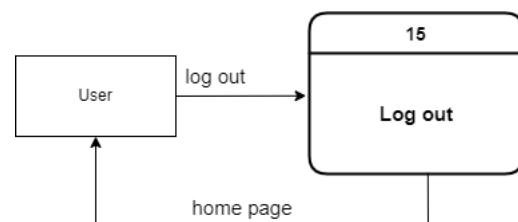


Image 2.39: DFD fragments of UC-15

- Cancel process

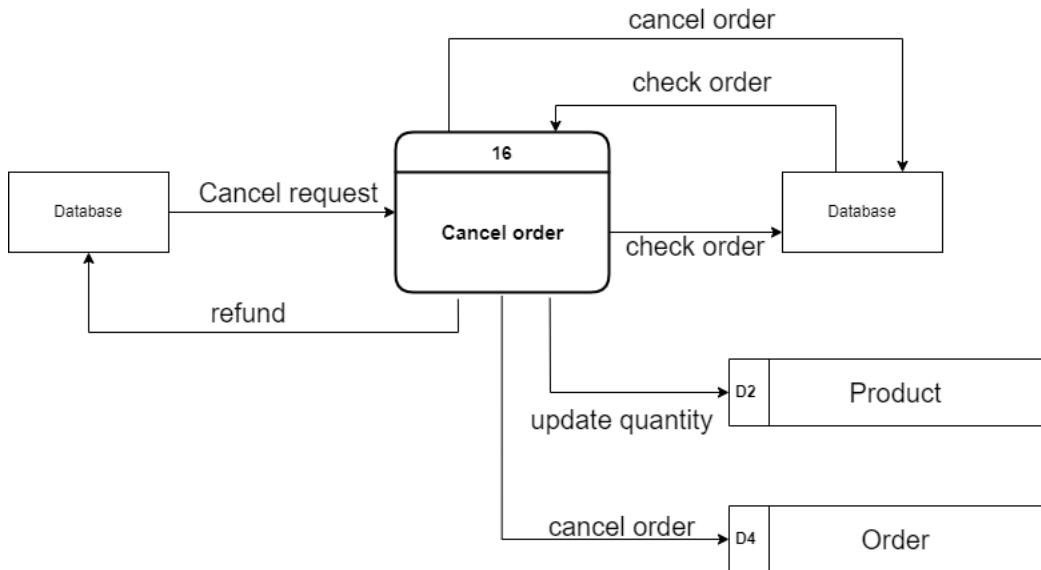


Image 2.40: DFD fragments of UC-16

- Modify process

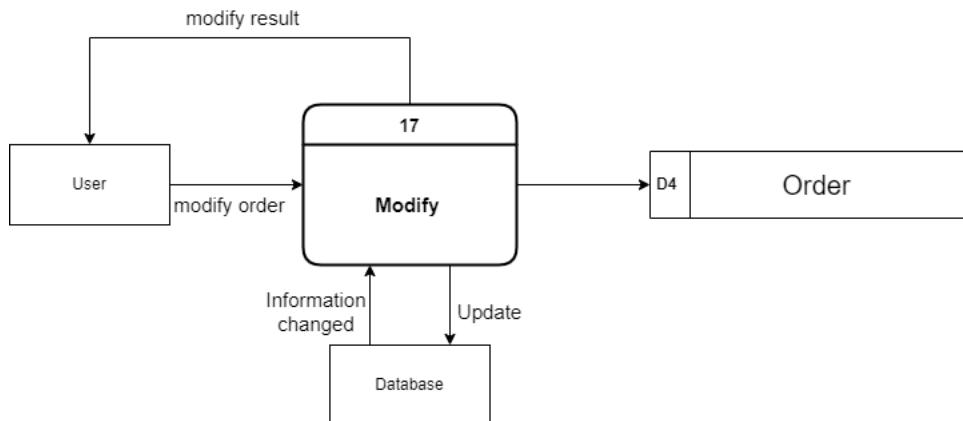


Image 2.41: DFD fragments of UC-17

- View shipping status process

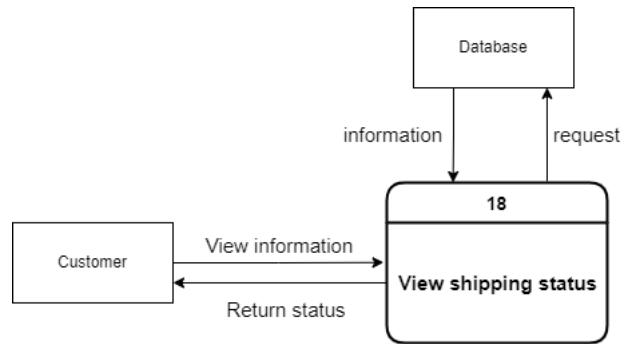


Image 2.42: DFD fragments of UC-18

- View wishlist process

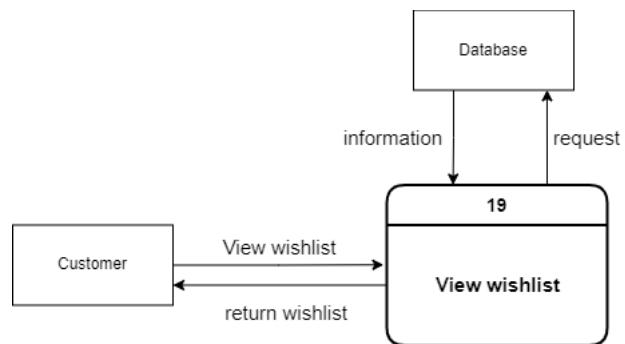


Image 2.43: DFD fragments of UC-19

- Search items process

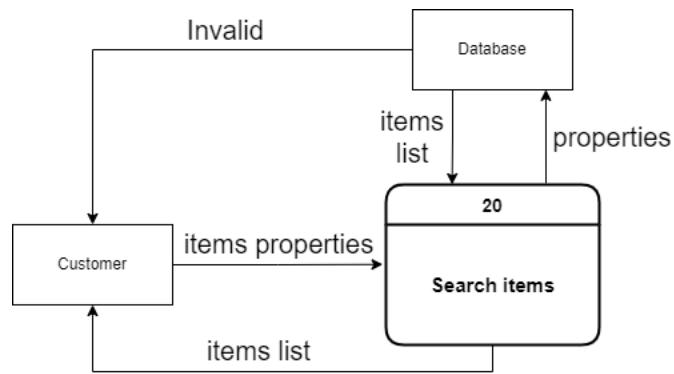


Image 2.44: DFD fragments of UC-20

- View items information process

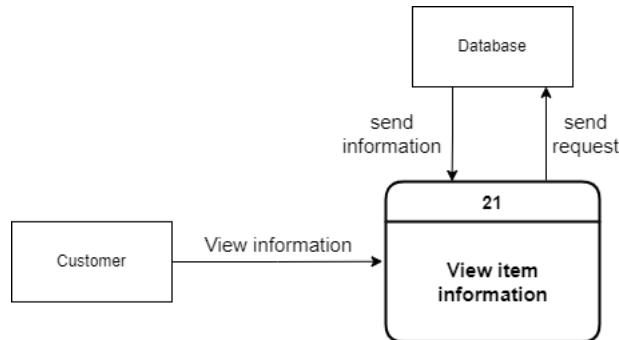


Image 2.45: DFD fragments of UC-21

- Add items to cart process

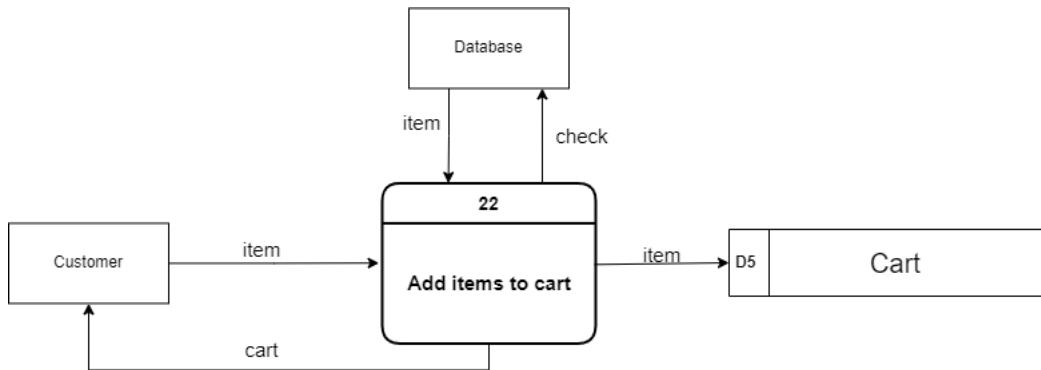


Image 2.46: DFD fragments of UC-22

- Purchase process

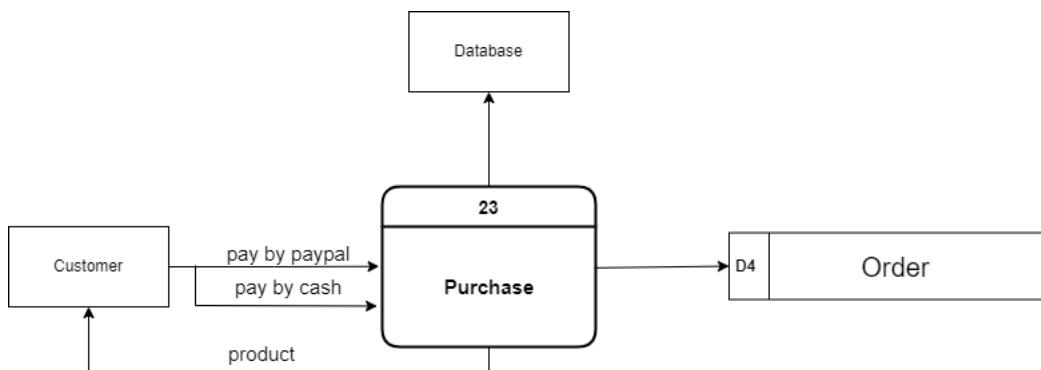


Image 2.47: DFD fragments of UC-23

- Reset password process

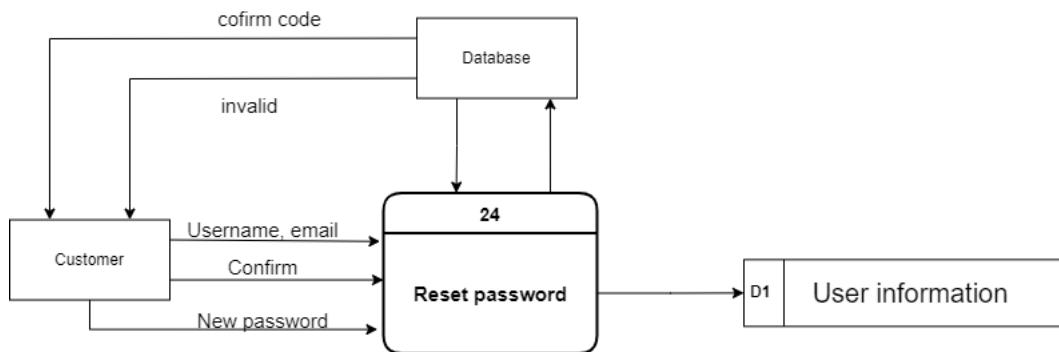


Image 2.48: DFD fragments of UC-24

- Comment process

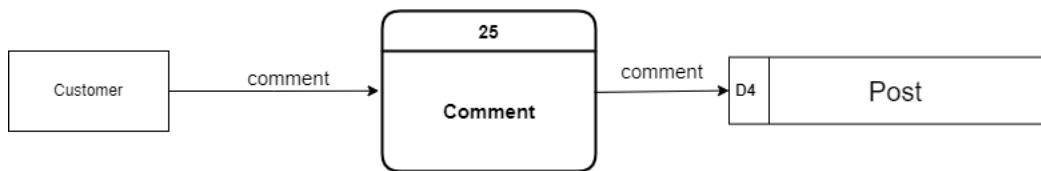


Image 2.49: DFD fragments of UC-25

- Check data process

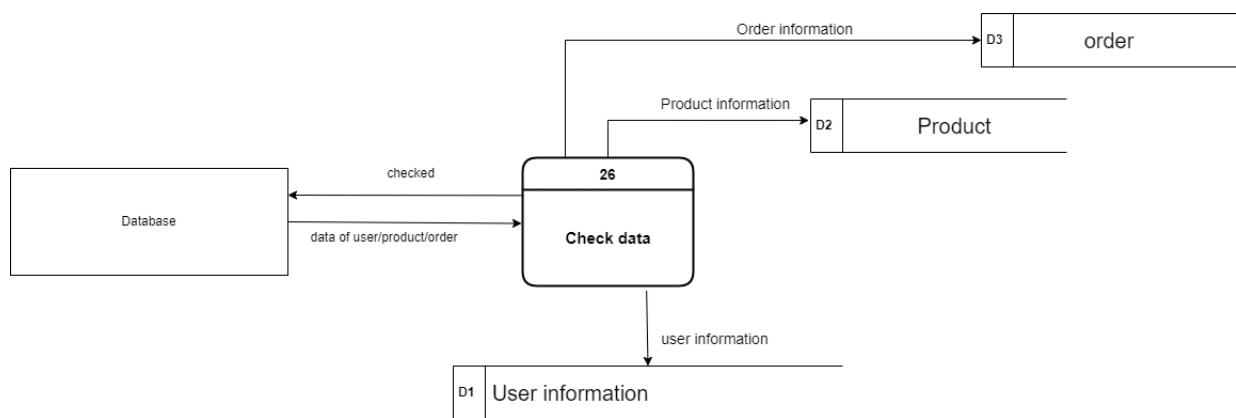


Image 2.50: DFD fragments

2.2.3 DFD at Level-0 of system

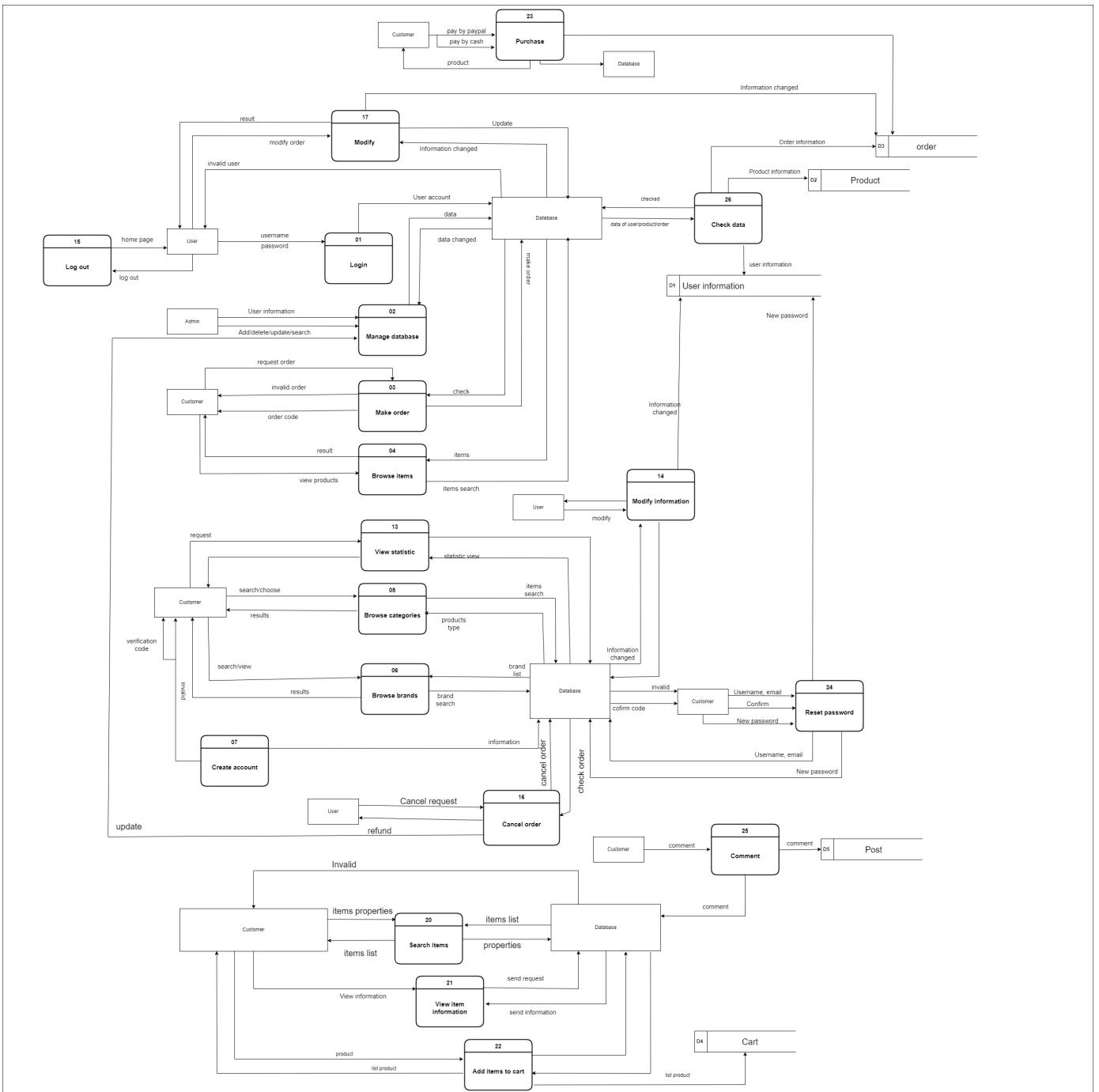


Image 2.51: DFD of system

2.3 ERD

- Entity Relationship Model

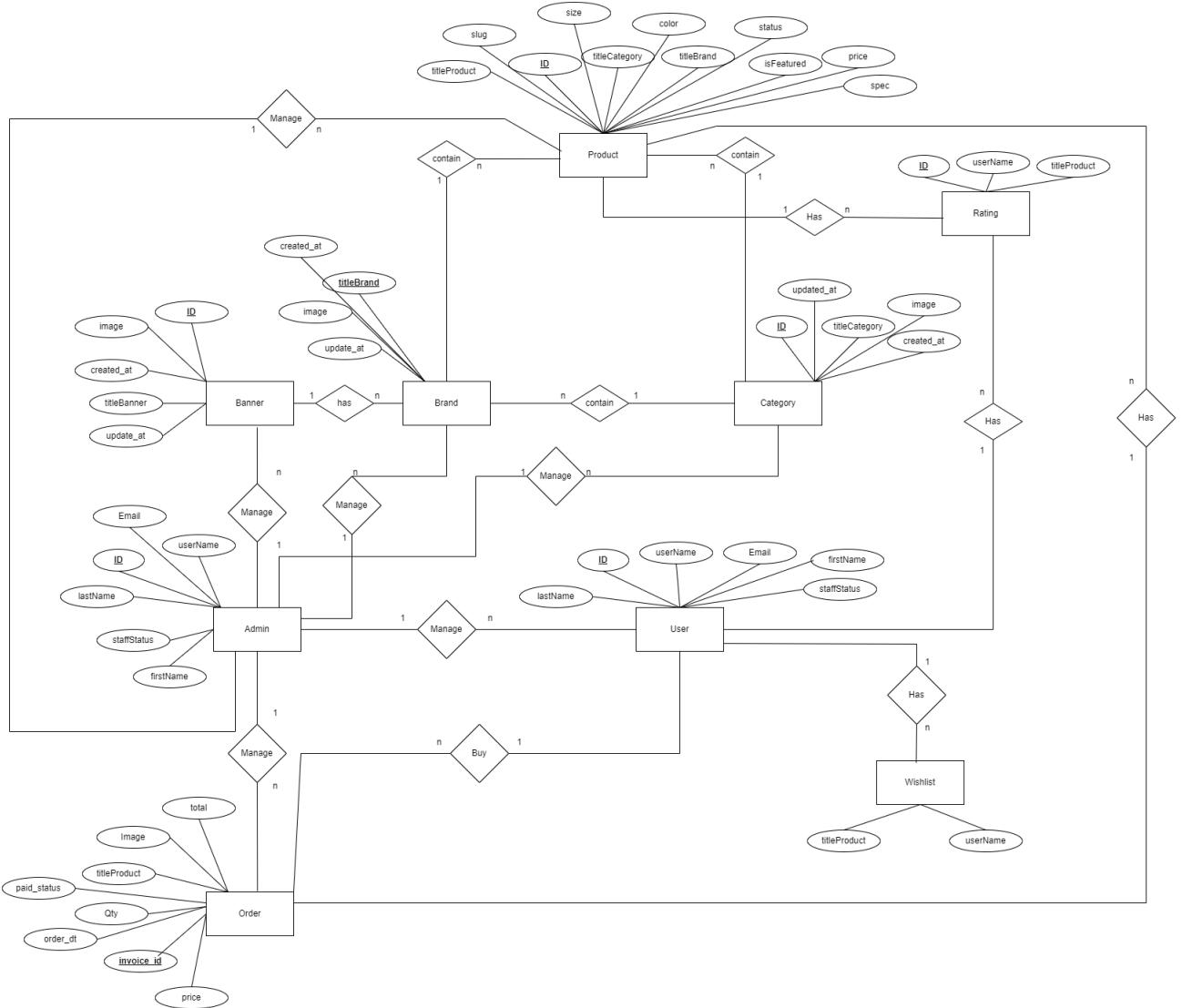


Image 2.52: ERD

- Entity Relationship Model Logical

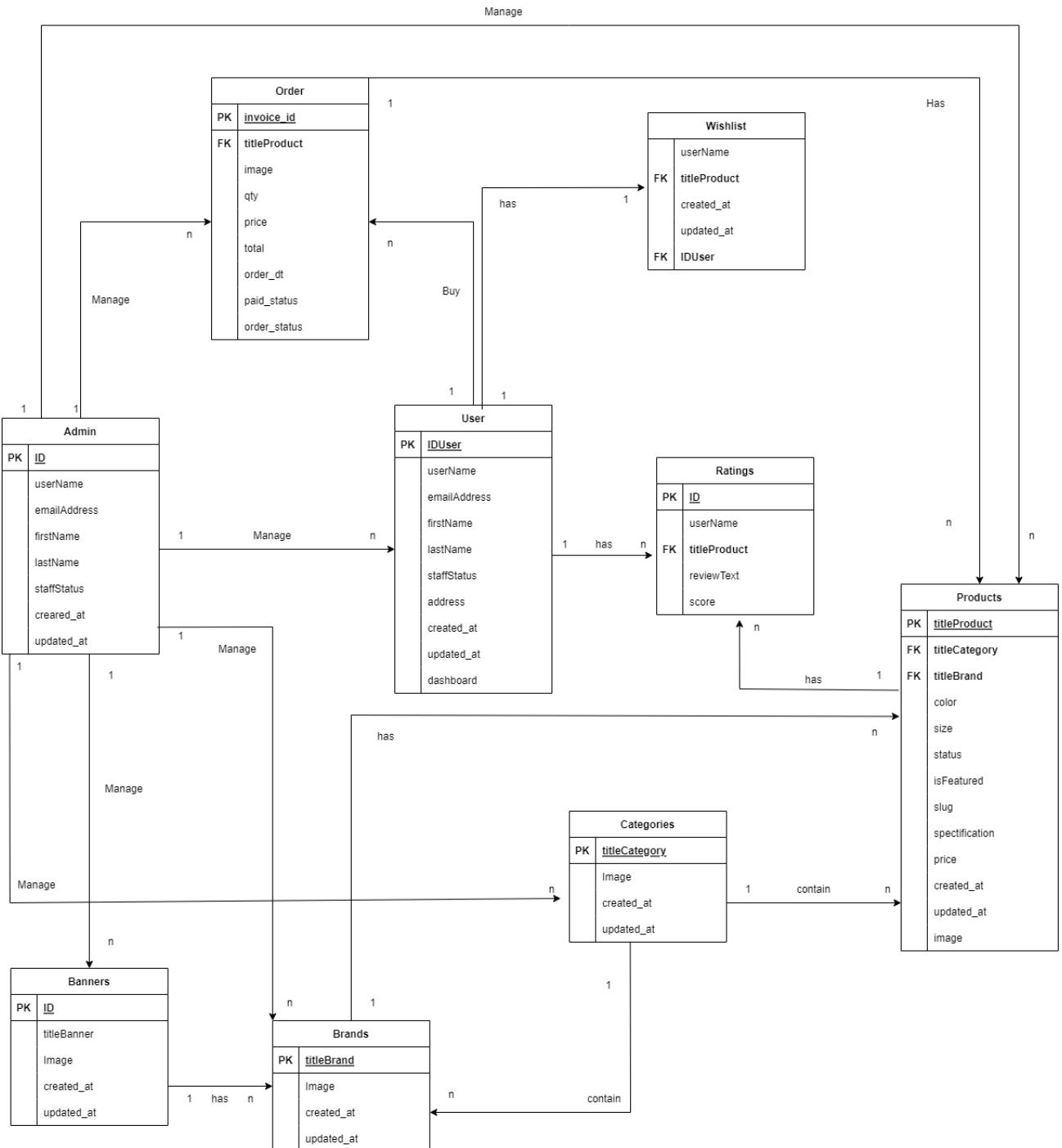


Image 2.53: ERD Logical

Chapter 3

SYSTEM IMPLEMENTATION

3.1 INTRODUCTION DJANGO

3.1.1 What is Django

- Simply put, Django is an open source, high-level Web programming framework written in the Python Programming Language. Django is designed to meet the needs of developing secure and easy-to-maintain websites
- Django uses MVT model (Model-View-Template) instead of using MVC model (Model-View-Controller).
- Some of the top companies using Django like: Instagram, Spotify, Youtube,...

3.1.2 Why should use Django Framework?

- It's fast and simple, Django makes web programming possible in no time.
- Moreover, Django has very good documentation and follows the principle of DRY (Don't Repeat Yourself) while other Frameworks don't care much about this. Django also supports ORM (Object Relistic Mapping).
- Migrations can be generated using:
 - python manage.py makemigrations: this command to update the changes on our models.
 - python manage.py migrate: responsible for applying changes caused by makemigrations changes.MVT(Model-View-Template)

3.1.3 MVT(Model-View-Template)

- The MVT model is used while creating an application with User Interaction. This model consists of HTML code with Django Template Language (DTL). Controller is the code written to control the interaction between Model and View. and Django easily take care of it. Whenever a user makes a request, it handles that user's request using Model, View and Template. It acts as a Controller to check if it's available or not by URL mapping and if the URL mapping is successful then the View will start interacting with the Model and send the Template back to the user as a response

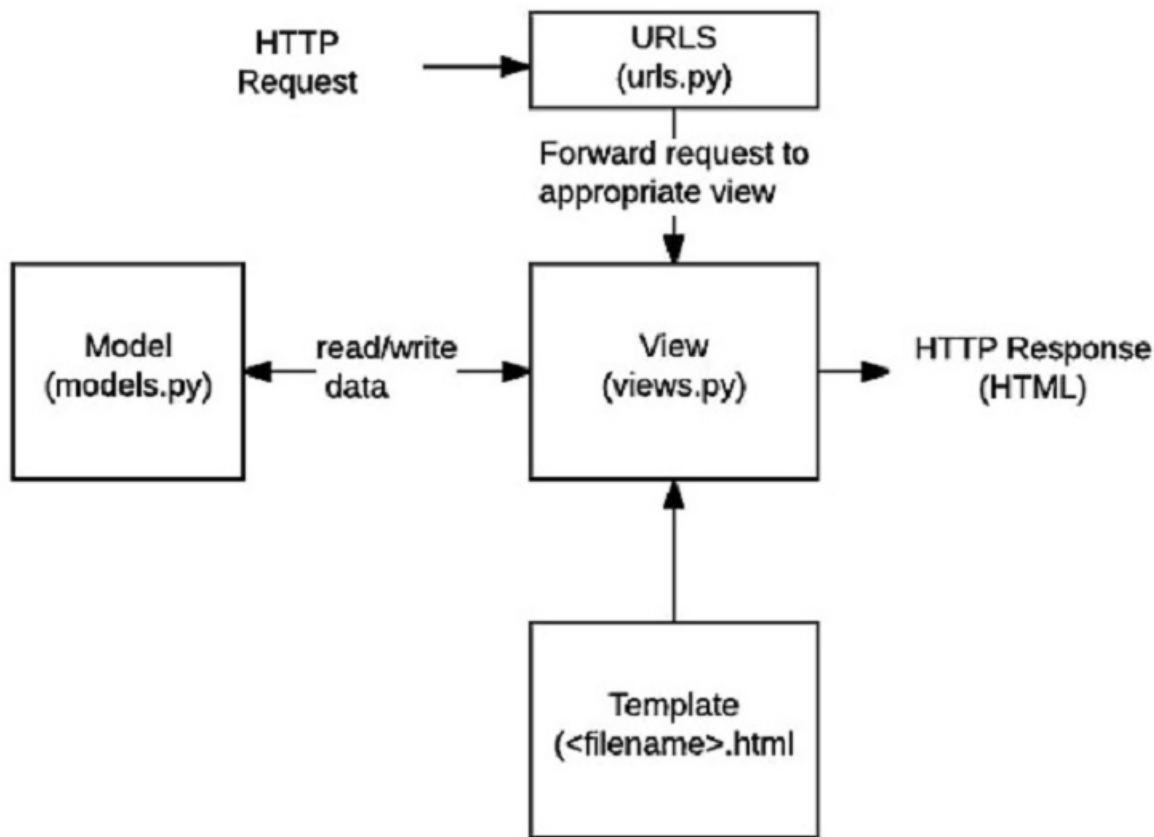


Image 3.1: Model View Template

3.1.4 Basic components of a Django application:

- The Django project generates a set of settings including database configuration and default options and application specific settings in the project.
- In There:
 - **manage.py**: Allows you to interact with your Django project in different ways

`__init.py__`: Tell the python interpreter that the directory should be treated as a python package. This file is mostly empty.

- `settings.py`: Configuration file.
- `urls.py`: Include all URL declarations for the Django project and the table of contents of the Django site.
- `wsgi.py`: This is the frontend for WSGI compatible web servers to serve your projects and deploy with WSGI.
- `admin.py`: Model registration here.
- `apps.py`: application configuration (app config).
- `models.py`: create model at here.
- `tests.py`: create test at here.
- `views.py`: create view at here.

If you want to check, is your project running, you can check it with the following command: `py manage.py runserver`: start the server to see if the code is working or not.

3.2 CORRESPONDING ARCHITECTURE

- Purchasing Process:

- Users when there is a need to search for a product about clothes and shoes. Users will visit the website to choose the product they want to buy, choose the size, choose the color and then add it to the cart. Here when clicking checkout, the user will be redirected to the payment page to perform the payment process the user can also see the delivery address here and can adjust it in his profile. When the purchase process is completed and the order has been confirmed successfully, the user can return to the homepage to continue buying other items, leave a review for the next user, and evaluate the bad things about the product.

- Sales and delivery process:

- After the user has completed his purchase process, the page manager checks the order through the system to see if the order has been paid or not and how many products are purchased and confirmed. Make an order to deliver to the user.

Chapter 4

DEMO

4.1 IMPLEMENTATION

- Home Page: This will be the place where new users will see or when registration is complete, this interface will appear.

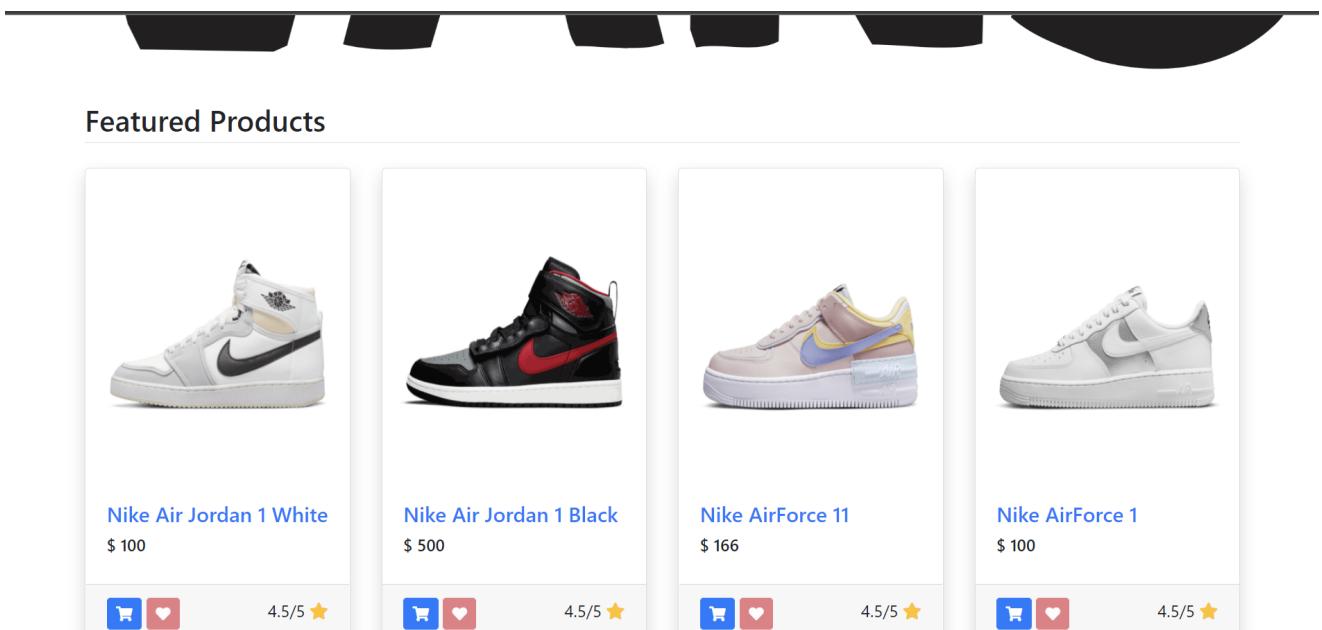


Image 4.1: Home Page

- Sign In: This will be the place where users log in to make purchases with the system.

The screenshot shows the Shoes Shop website's login interface. At the top, there is a dark header bar with the text "Shoes Shop" and a search bar containing the placeholder "search". To the right of the search bar are links for "Home", "Categories", "Brands", a shopping cart icon with "(0)", and "My Account". Below the header, the word "Login" is displayed in a large, bold, black font. The main form area contains two input fields: "Username" with the value "anhv806" and "Password" with a masked value. A blue "Login" button is positioned below these fields. At the bottom of the form, there is a link "Reset Password" and a note "If you are not register, Please [Signup here](#)". Below the login form, there is a footer section with five columns: "Shoes Shop" (with copyright information), "Features" (listing "Cool stuff", "Team feature", and "Stuff for developers"), "Resources" (listing "Resource", "Resource name", and "Another resource"), "About" (listing "Team", "Locations", and "Privacy"), and "Contact" (listing "SDT:0123456789" and "Email:aloals@gmail.com").

Image 4.2: Sign In

- Sign Up: A place where users who do not have an account will create to use the system.

The screenshot shows the Shoes Shop website's sign up interface. At the top, the word "SignUp" is displayed in a large, bold, black font. Below it is a form with six input fields: "First name", "Last name", "Email address", "Username" (with a note about character limits and allowed characters), "Password" (with a note about password requirements and a list of restrictions), and "Password confirmation" (with a note about matching the original password). A blue "Register" button is located at the bottom left of the form.

Image 4.3: Sign Up

- Product: Where when the user clicks all product, it will show all products and include a filter bar so that users can choose according to their preferences and the system will filter according to customer preferences to offer the products that customers need.

The screenshot shows a web-based shopping interface for a 'Shoes Shop'. At the top, there is a navigation bar with links for 'Home', 'Categories', 'Brands', 'Cart (0)', and 'My Account'. Below the navigation is a search bar with the placeholder 'Search' and a 'Search' button. To the left, there is a 'Filters' section containing two main categories: 'Price' and 'Colors'. The 'Price' filter includes a slider set between 100 and 1500, a 'Max:' input field set to 100, and a 'Filter' button. The 'Colors' filter includes three color swatches: black, white, and pink, each with an associated checkbox. On the right side, there is a 'Products' section displaying three items in a grid format:

Product Image	Product Name	Price	Rating
	Nike Air Jordan 1 White	\$ 100	5/5 ★
	Nike Air Jordan 1 Black	\$ 500	5/5 ★
	Nike AirForce 11	\$ 166	5/5 ★

Each product card includes a small shopping cart icon and a heart icon, indicating it's a favorite or liked item.

Image 4.4: All Product

- Product Detail: This is where all the product samples or customer reviews will be displayed.

Nike AirForce 11

Nike AirForce 1



Colors	
Sizes	44
Price	\$ 166

1 [Add to Cart](#)

Detail

Brand	Nike
Category	Sports

Reviews - 2.0/5

[Add Review](#)

ádasdas — admin

Image 4.5: Product Detail

- Cart: Shopping cart when customers add products to make payment. Here, customers can also cancel products they don't buy anymore or can update the purchase quantity.

Shoes Shop Search

Home Categories Brands Cart (1) My Account ▾

Cart (1)

Product	Qty	Price	Total
	<input type="text" value="1"/> ⊖ ⓧ	\$ 500	\$ 500
Nike Air Jordan 1 Black			
		Total	\$ 500.0
			Checkout ➔

Shoes Shop
 © 2022-2023

Features
 Cool stuff

Resources
 Resource

About
 Team

Contact
 SDT:0123456789

Image 4.6: Cart

- Payment: Where to perform the payment process after the customer is satisfied. You will make payment via paypal electronic transaction.

Shoes Shop Search
 Home Categories Brands Cart (1) My Account ▾

Cart (1)

Product	Qty	Price	Total
	1	\$ 500	\$ 500
Nike Air Jordan 1 Black		Total	\$ 500.0
Buy Now 			

Selected Address

Ton Duc Thang

Image 4.7: Payment

- Profile: Where customers can view their order or view their purchase statistics for the month, can edit their password and information or can review the reviews of their favorite products.

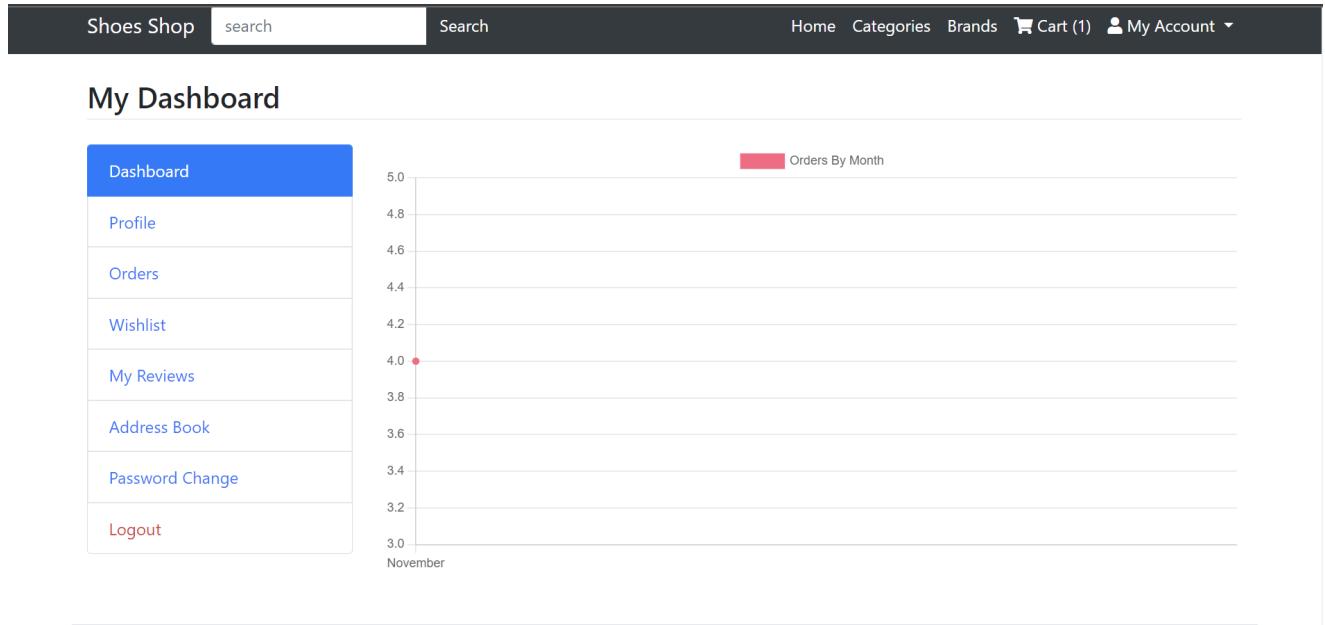


Image 4.8: Profile

- Admin: Where the manager can perform user management or product management and orders and can view the revenue by product.

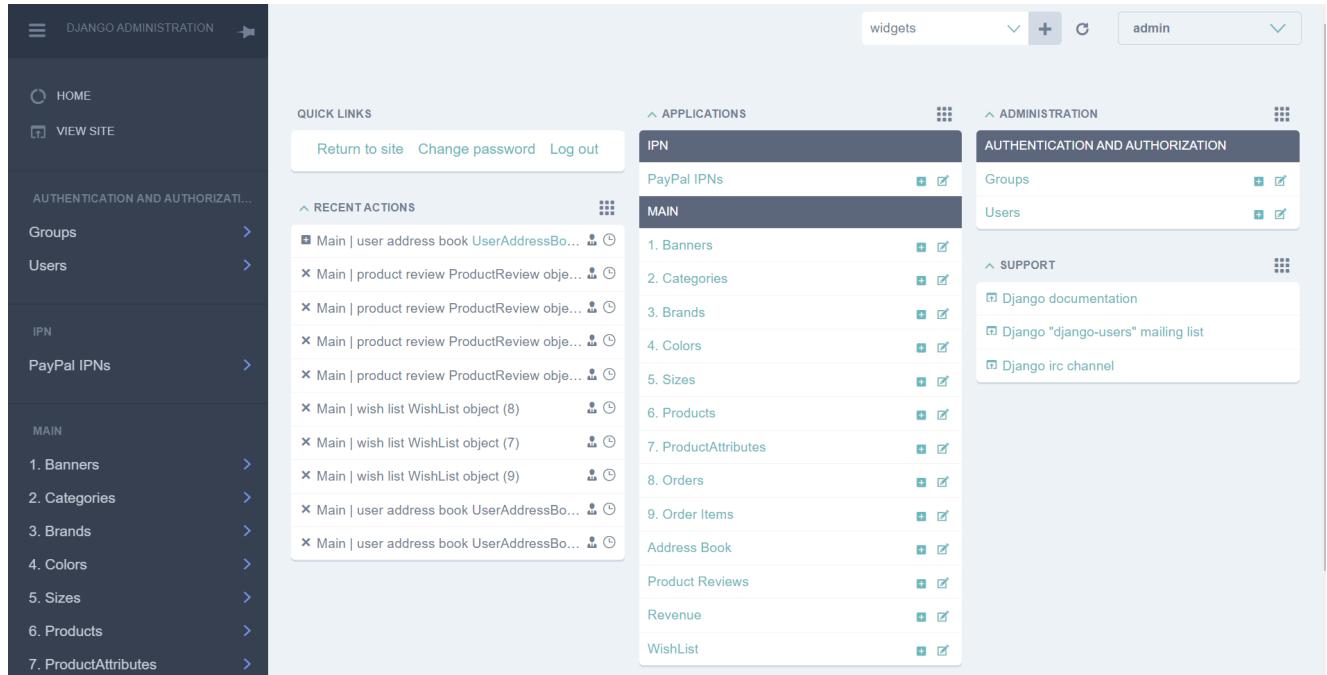


Image 4.9: Admin

Chapter 5

CONCLUSION

5.1 ACHIEVEMENT REPORT

- Successfully built a website with many features to meet the buying needs of today's customers.
- With the interface built as minimally as possible, users can easily operate on each function of the website without any guidance.
- Staff and admin can easily manage the system, users and promptly handle possible situations.
- The interface is still not eye-catching, attracting users, still need to improve in terms of design.
- Products are not diversified.
- System security is not high.
- It is necessary to clearly decentralize authority between the admin and the staff to ensure the security of the business

Tài liệu tham khảo