



Requirement & Design Specification

Smartphone Online Shop System (SOSS)

Version: 1.0

Hanoi, July 2024

Record of Changes

Version	Date	A* M, D	In charge	Change Description
1.0	24/05/2024	M	Team	Design Database, Use Case diagram, Screen Flow diagram, Package diagram Add description for these diagram
1.0	01/07/2024	A	Team	Add Requirement Specification:1, 2, 3, 4, 5 Add Design Specification:1, 2, 3, 4, 5
1.0	07/07/2024	M	Team	Modified Requirement Specification:1, 2, 3, 4, 5 Modified Design Specification:1, 2, 3, 4, 5

*A - Added M - Modified D - Deleted

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I. OVERVIEW

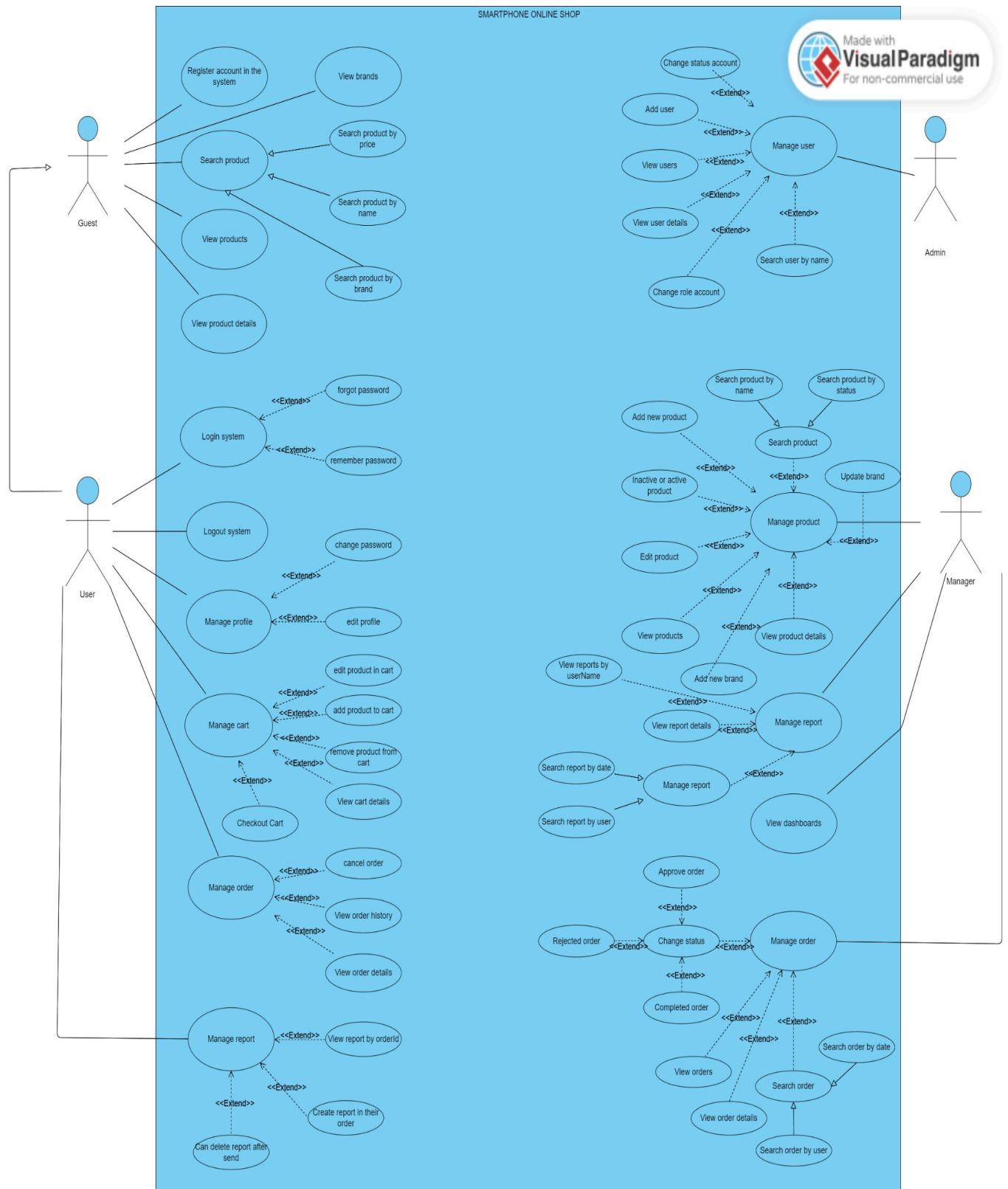
1. User Requirements

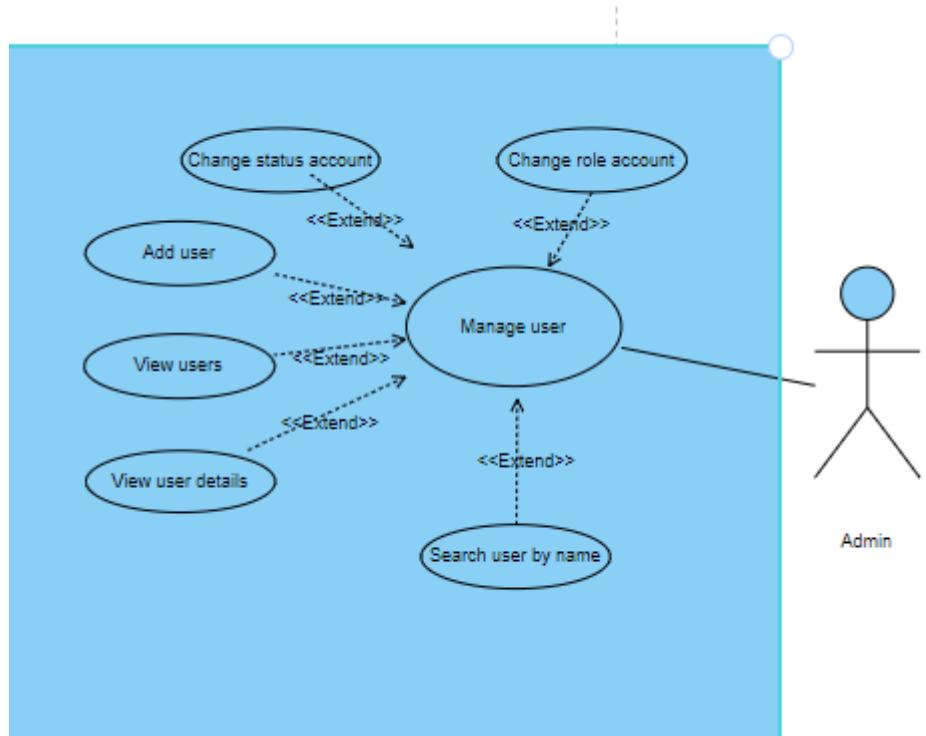
1.1 Actors

STT	Actor	Description
1	Admin	<ul style="list-style-type: none">- Can manage all accounts in the system.- Can assign roles for users.
2	Guest	<ul style="list-style-type: none">- Can register on the web.- Can view products.- Can view product details.- Can search for products by product attributes.
3	User	<ul style="list-style-type: none">- Can log in/ log out (remember, reset password).- Edit profile (change password, update information).- Can manage products (add, delete, edit) on cart.- Can order on the web, view order history.- can manage report of each order.
4	Manager	<ul style="list-style-type: none">- Can manage order details.- Can view customers who order.- Can manage products and product details.- Can manage reports and report details.- Can view all statistics dashboard about products and orders in the shop.

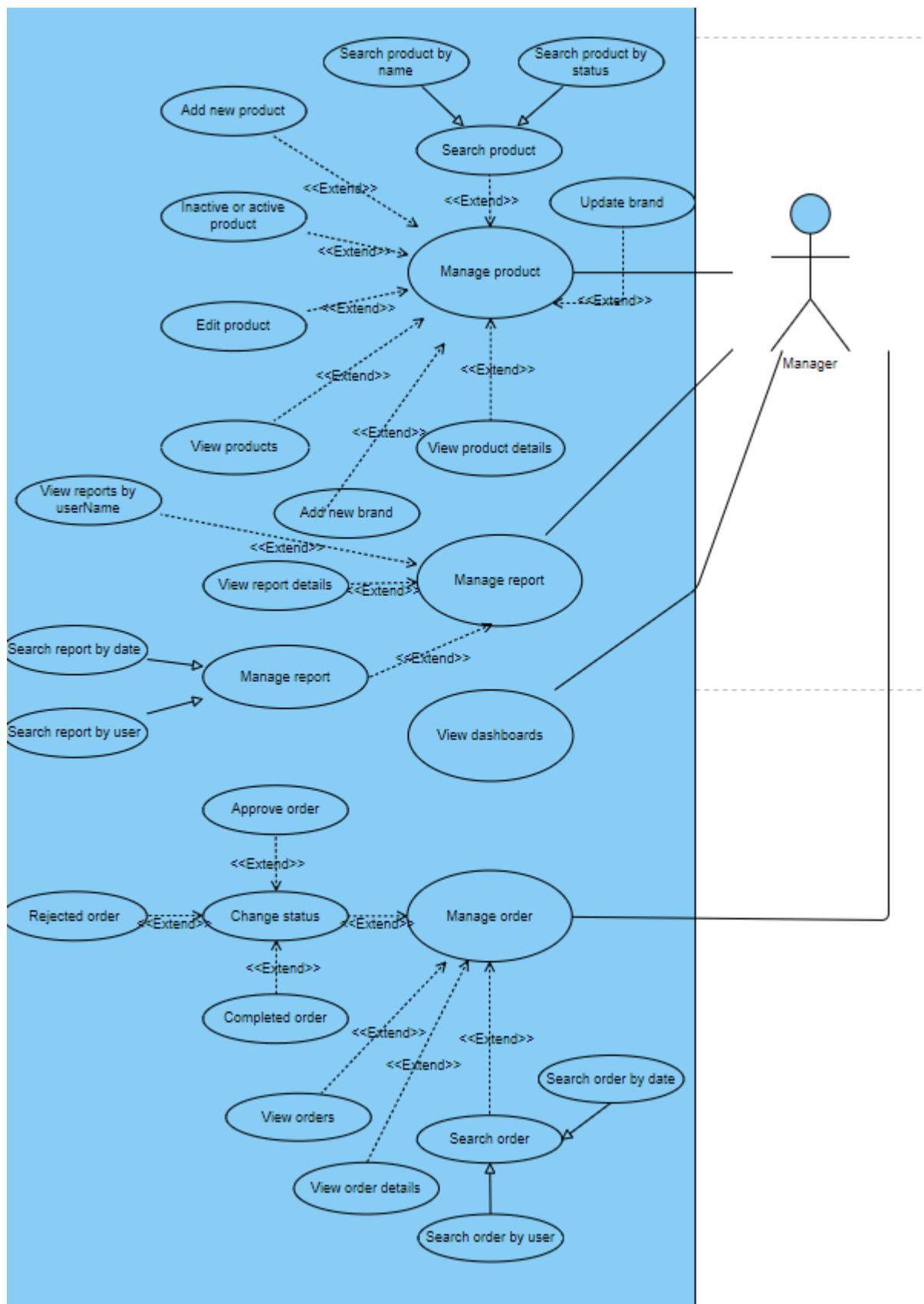
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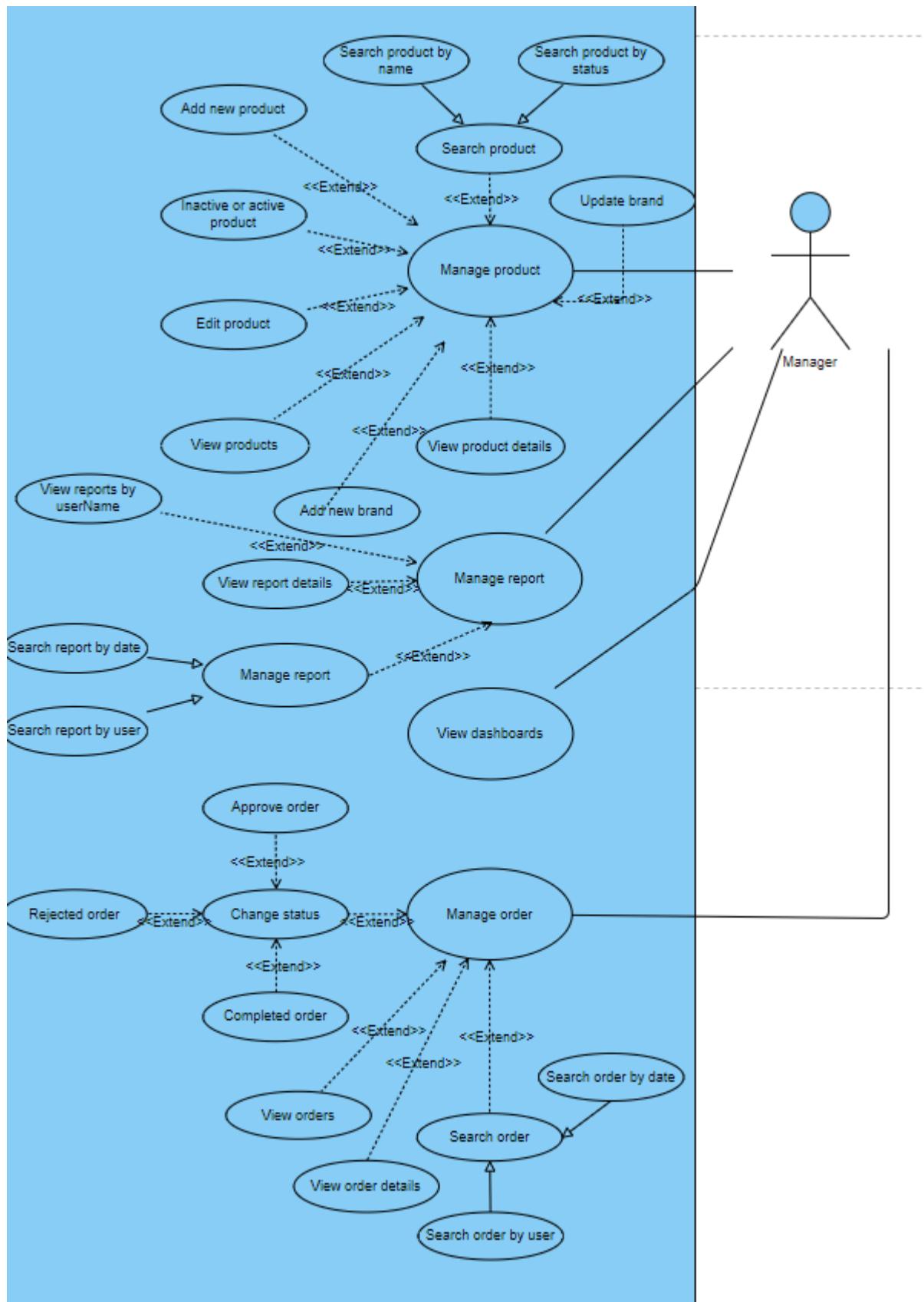
a. Diagram(s)



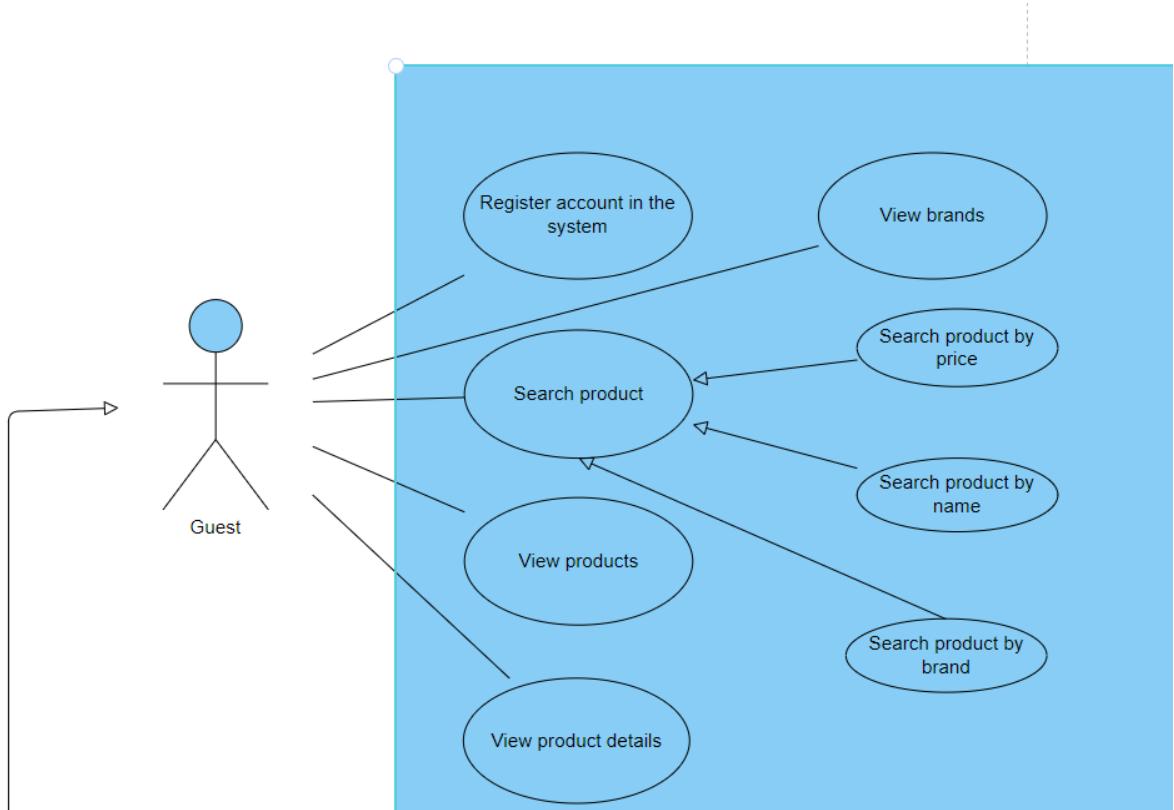


ADMIN

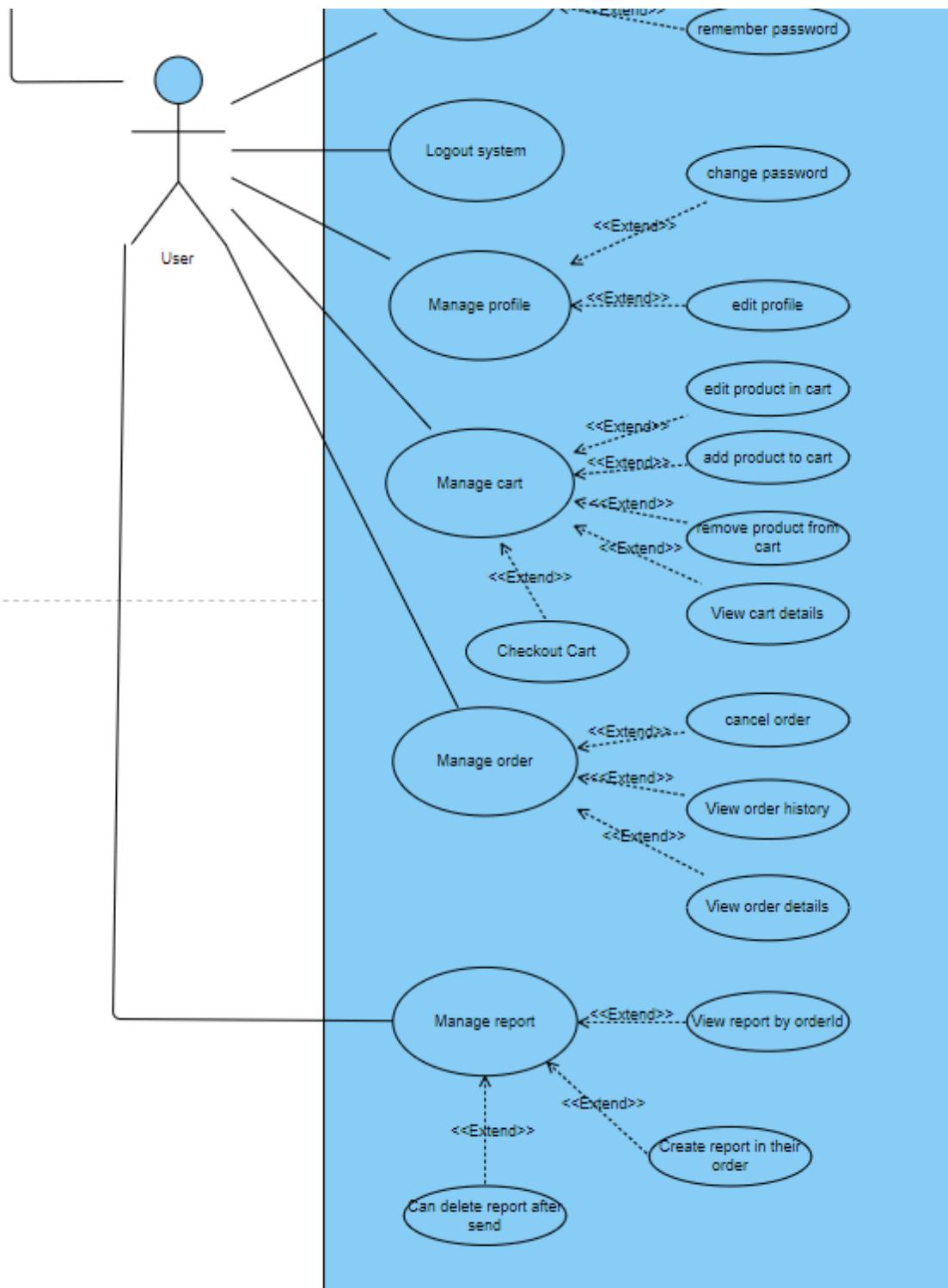




MANAGER



GUEST



USER

b. Descriptions

ID	Actor	Feature	Use Case	Use Case Description
01	Guest	Authentication	Register account	Send OTP to the user's email to be able to verify that this is the user's email or not.
02	Guest	Guest's authority	View products	Can view products or best seller products in the store.
03	Guest	Guest's authority	View product details	Can view product details of any product in the store so they can make their choice of other products.
04	Guest	Guest's authority	Search product by price	Can search for the products they want by using price.
05	Guest	Guest's authority	Search product by name	Can search the products that they want by using name.
06	Guest	Guest's authority	View brands	Can view brands in the store.

07	Guest	Guest's authority	Search product by brand	Can search the products that they want using the brand.
08	Admin	Admin's authority	View user details	Can view all users in a list to manage.
09	Admin	Admin's authority	View users	Can view overall users.
10	Admin	Admin's authority	Change role Account	Can change the role of all accounts in the system.
11	Admin	Admin's authority	Change status account	Can deactivate an account of a user.
12	Admin	Admin's authority	Search user	Can search by name that helps Admin find out rapidly users.
13	Admin	Admin's authority	Add user	Can add new users in the system.
14	User	Authentication	Forgot password	Can reset password if the user forgot that.
15	User	Authentication	Reset password	Can reset passwords so users can reset their password without needing to login.
16	User	Authentication	Logout	Can log out to change an account or secure account.
17	User	Authentication	Login	Can login user's account into the system.

18	User	User's authority	Change password	Can change passwords that help users simply manage their account.
19	User	User's authority	Edit profile	Can update information of users such as email, name, address.
20	User	User's authority	View cart	Can see all details of their cart.
21	User	User's authority	Add to cart	Can add products that the user wants to buy.
22	User	User's authority	Remove product from cart	Can remove products if the user does not want to buy this product.
23	User	User's authority	Edit product in cart	Can update the quantity of each product.
24	User	User's authority	Checkout Cart	Check out all products in the cart for buying.
25	User	User's authority	View cart details	Can view detailed products that users add to cart.
26	User	User's authority	Cancel order	Can cancel orders when users want to order other products.
27	User	User's authority	View order history	Can check the history of each order.

28	User	User's authority	View order details	Can view order details for easy management.
29	User	User's authority	View report details	Can view reports with their order.
30	User	User's authority	Add new report	Can give a report with their order to the Manager.
31	User	User's authority	Delete report	Can delete reports with their order.
32	Manager	Manager's authority	View products	Can view products in the store.
33	Manager	Manager's authority	View product details	Can view product details of any product in the store.
34	Manager	Manager's authority	Add new product	Can add a new product to the shop.
35	Manager	Manager's authority	Inactive or active product	Can update status of an existing product from the shop.
36	Manager	Manager's authority	Edit product	Can edit an existing product information.
37	Manager	Manager's authority	Search Product	Can search products by name
38	Manager	Manager's authority	Add new brand	Can add a new brand to the shop.

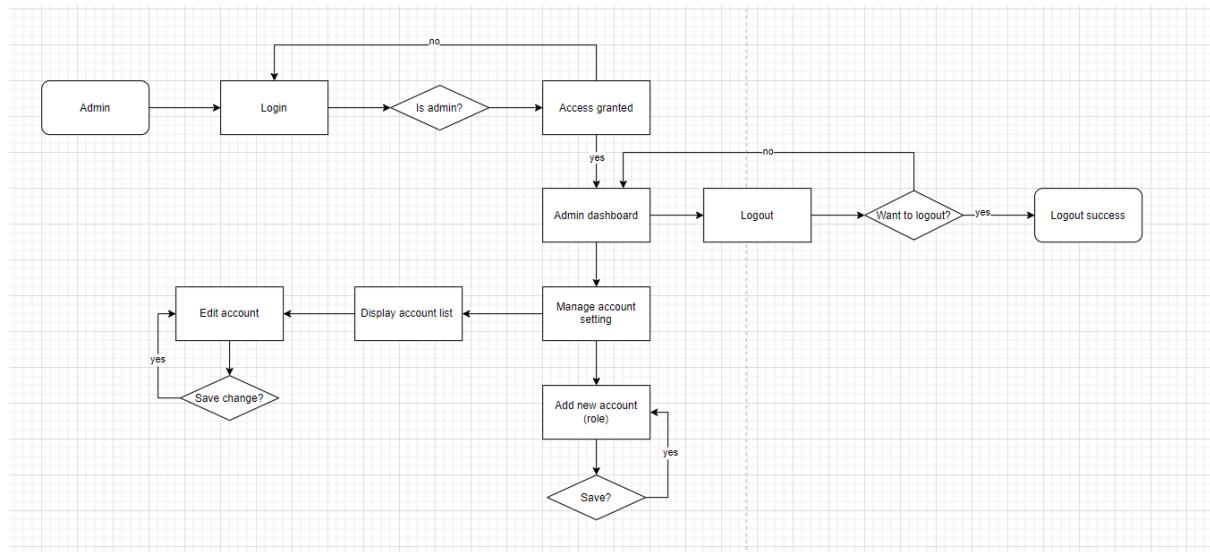
39	Manager	Manager's authority	Update brand	Can update brand name to the shop.
40	Manager	Manager's authority	Select phone by status	Can select phone by status to find update quickly status of phone
41	Manager	Manager's authority	View reports	Can view reports of user orders.
42	Manager	Manager's authority	View report details	Can see details of report list
43	Manager	Manager's authority	Search report	Can search reports by Date.
44	Manager	Manager's authority	Search report	Can search reports by User.
45	Manager	Manager's authority	View orders	Can view the user's orders.
46	Manager	Manager's authority	View order details	Can view details of each user's order.
47	Manager	Manager's authority	Change status order	Approve or reject customer's orders.
48	Manager	Manager's authority	Search order	Can search order by username.
49	Manager	Manager's authority	Search order	Can search order by date.

50	Manager	Manager's authority	View dashboard	Can view sales over time and compile statistics on the best-selling products.
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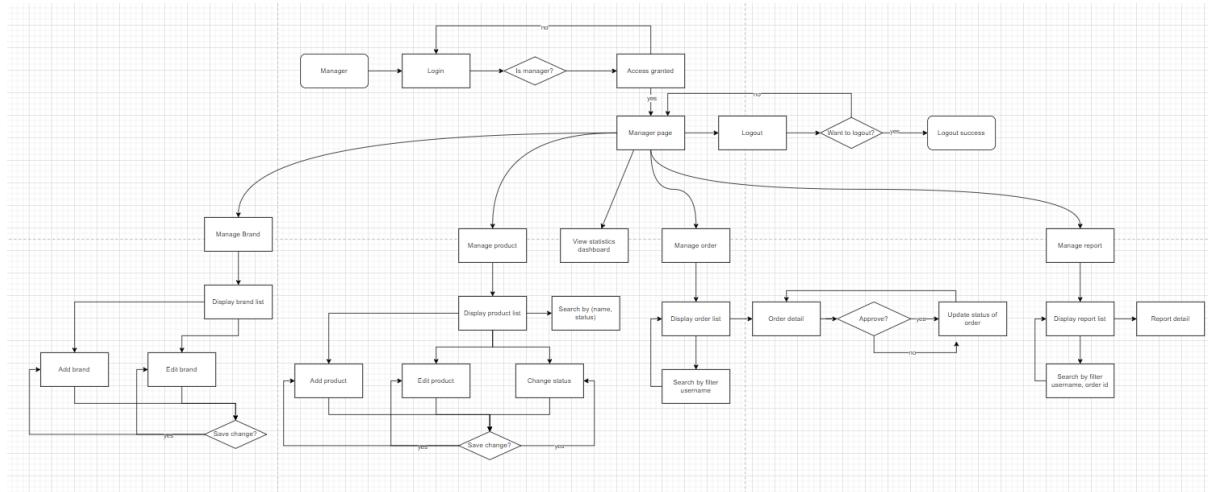
2. OVERALL FUNCTIONALITIES

2.1 Screen Flow

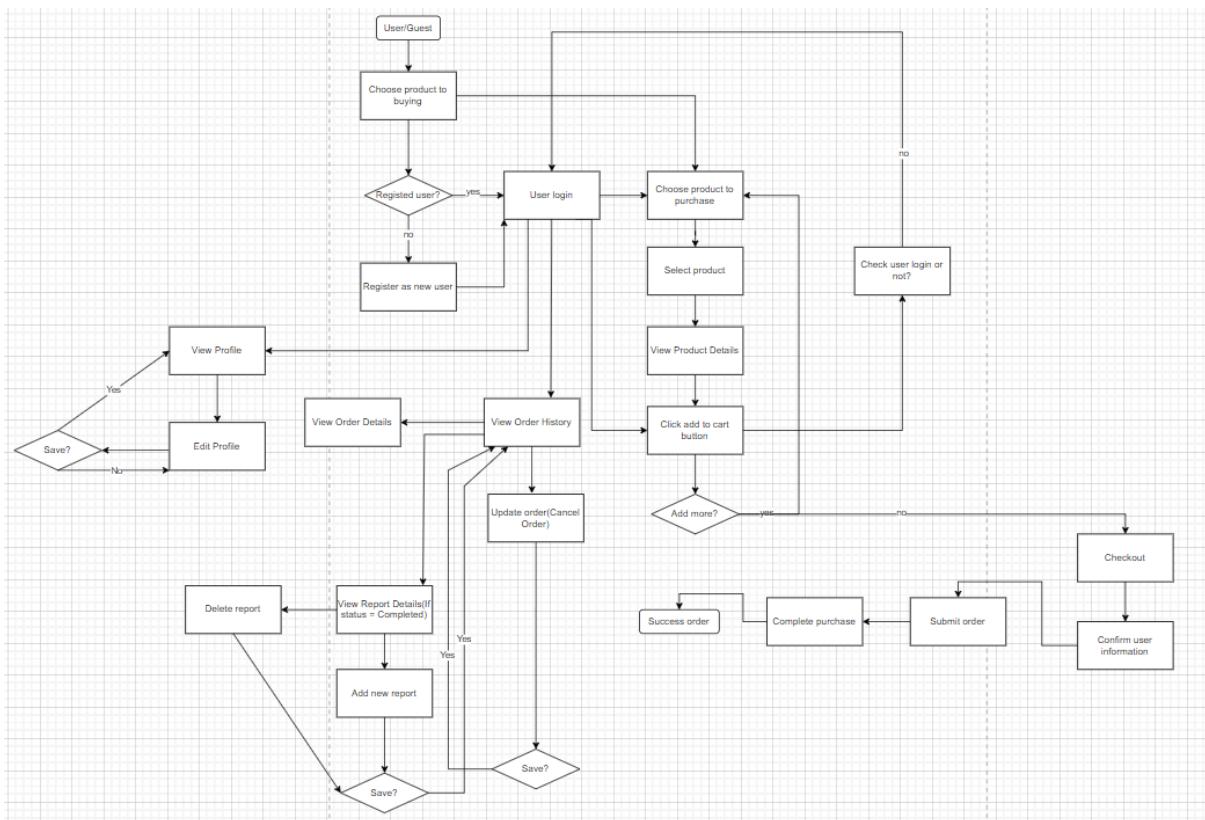
Admin



Manager



User/Guest



2.2 Screen Descriptions

	Screen	Feature	Description
1	User Login	Authentication	This is a pop-up screen which allows the user to enter email & password to login; on this page, there are also options for users to register new information or reset the password in case s/he forgets it.
2	User Register	Authentication	This is a pop-up screen which allows the user to register himself/herself to the system by inputting the following information: full name, gender, email, mobile, and address; User then needs to verify by clicking the link sent via email to him/her before being able to access the system.
3	Reset Password	Authentication	The user input his/her email to receive the reset password link. This link is sent to the user's email for his/her password resetting. - On clicking the link, the user is redirected to the password resetting page in which s/he input new password (twice) for the system access - Note that the link is only available for a specific time duration as configured in the system config file.
4	Log out	Authentication	This is a screen which allows the user to log out of the system when they are in the system
5	Choose product to purchase item	Guest's authority	This screen displays information about all products, including price level, brand sections.

6	Select product	Guest's authority	This screen displays the name and price of this selected product. It also provides an “Add to cart” button that helps guests easily add product to cart
7	View Products Details	Guest's authority	This screen displays details of selected products by guests such as images, technical specifications. It also provides an “Add to cart” button that helps guests easily add product to cart
8	Edit profile	User's authority	This screen displays a form that helps users fill all information needed to place an order for any product.
9	Add product to cart	User's authority	This is the flow for users to add products to their cart
9	View cart	User's authority	This is the screen for users to see the products they have added to the cart
10	Update Cart	User's authority	This is the flow for users to increase or decrease quantity or remove a product from the cart
11	Checkout	User's authority	This is the screen for users to check out all the products they have and confirm to be able to order
12	Confirm User Information	User's authority	This is the flow for users to confirm the necessary information for the order.
13	Place Order	User's authority	This is the flow to be able to order products currently in the checkout page.
14	View Order History	User's authority	This is the screen displaying the list of orders that the user has ordered, including the status time.
15	View Order Details	User's authority	This is detailed information about orders that users have placed
16	Update Order	User's authority	This is the flow to edit order status and cancel orders
17	View Report Details	User's authority	This is the screen displaying the report page and information of the product containing the report
18	Create new report	User's authority	This is a flow that helps users create reports to reflect product quality for management.
19	Delete Report	User's authority	This is a flow that helps users delete reports they have created.

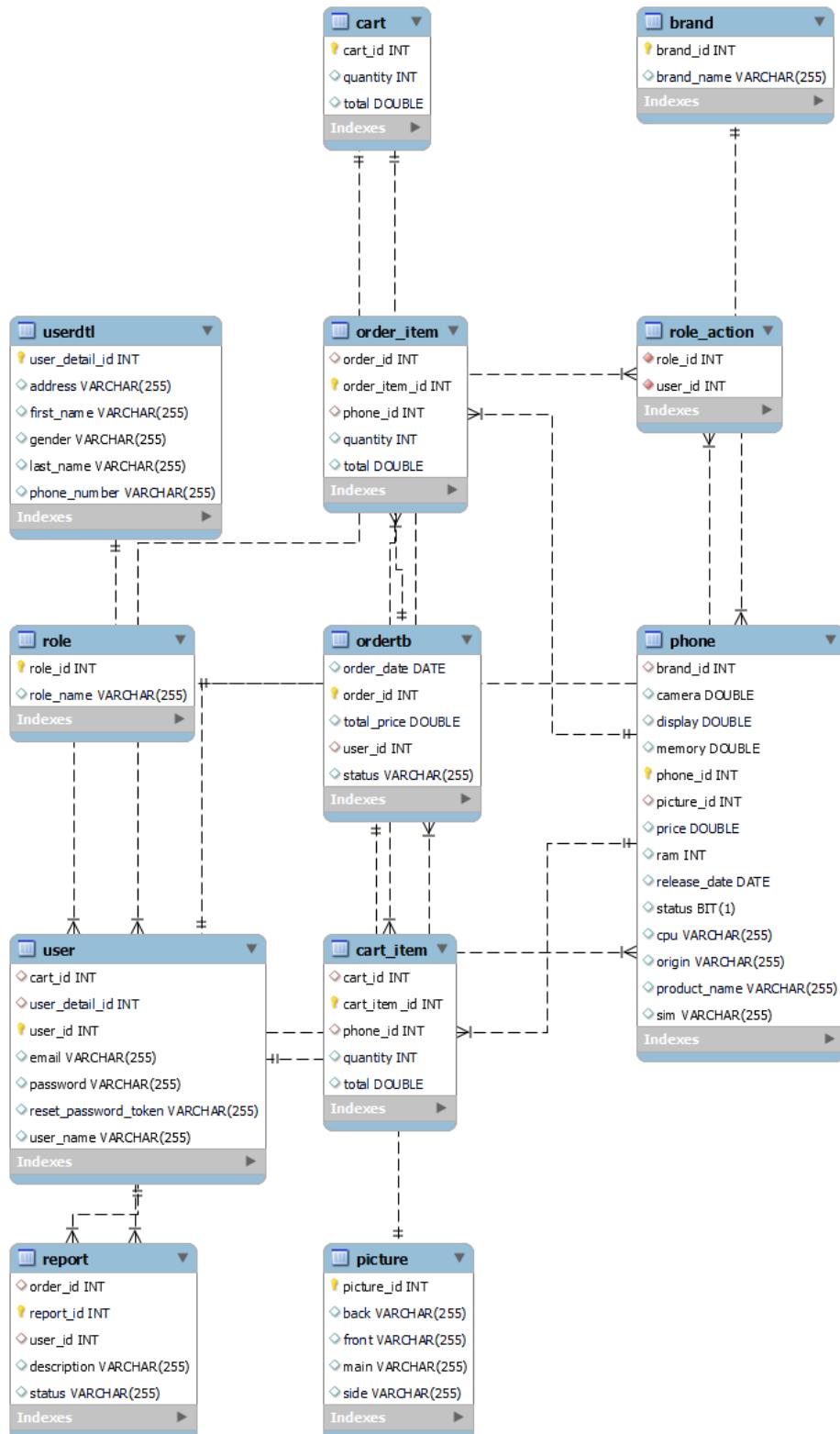
23	View Users List	Admin's authority	This is a screen that allows administrators to view the list of user that exist in system
24	Add new Account	Admin's authority	This is a flow that allows administrators to add a new user account into the system.
25	View User Details	Admin's authority	This is a screen that allows administrators to view detailed information about users who have accounts in the system.
26	Edit role	Admin's authority	This is a flow that allow administrators to edit profile of users that exist in the system.
27	Display product list	Manager's authority	Allows the manager to view all products. It also provides important details of each product such as price, status, brand.
28	Add product	Manager's authority	This is a screen that allow manager to add a new product to the system.
29	Edit product	Manager's authority	This is a flow that allows managers to edit information about a product .
30	Change status	Manager's authority	This is a flow that allows the manager to update the status(active or inactive) of a product.
35	Search by(name,status)	Manager's authority	This is a flow that allows managers to search products by name and status(active, inactive and all).
36	Add brand	Manager's authority	This is a screen that allows manager to add a brand to system
37	Edit brand	Manager's authority	This is a flow that allows managers to edit the information of a brand.
38	Display order list	Manager's authority	This flow allows the manager to view all orders. It also provides important details of each order such as id, date, status, price.
39	Search by filter username	Manager's authority	This is a flow that allows managers to search orders by username
40	Order detail	Manager's authority	This flow allows the manager to view an order details
41	Update order status	Manager's authority	This is a screen that allows the manager to update the status(approve, reject or complete) of an order.
42	Display report list	Manager's authority	This flow allows the manager to view all reports. It also provides important details of each order such as report id, order id, user id

43	Report details	Manager's authority	This flow allows the manager to view a report details
44	Search report by filter username	Manager's authority	This is a screen that allows managers to search reports by username.
45	View statistics dashboard	Manager's authority	This is a screen help manager who can see overall information about orders and sales in the shop.

3. SYSTEM HIGH LEVEL DESIGN

3.1 Database Design

a. Database Schema



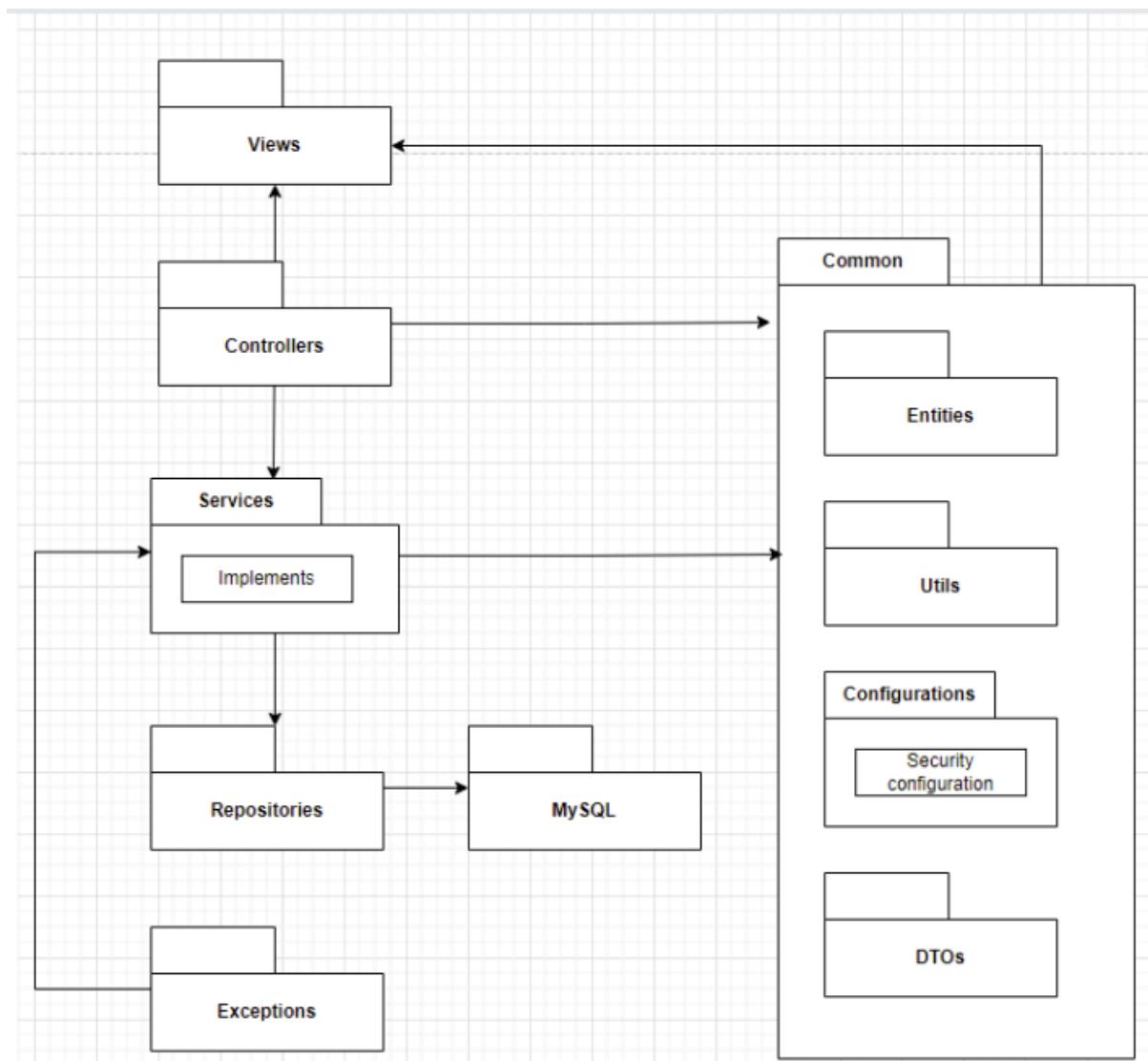
b. Table Descriptions

No	Table	Description
01	user	cart_id: INT (Foreign Key, Reference to cart.cart_id) user_detail_id: INT (Foreign Key, Reference to userdtl.user_detail_id) user_id: INT (Primary Key) email: VARCHAR(255) password: VARCHAR(255) reset_password_token: VARCHAR(255) user_name: VARCHAR(255)
02	userdtl	user_detail_id: INT (Primary Key) address: VARCHAR(255) first_name: VARCHAR(255) gender: VARCHAR(255) last_name: VARCHAR(255) phone_number: VARCHAR(255)
03	role	role_id: INT (Primary Key) role_name: VARCHAR(255)
04	role_action	role_id: INT (Primary Key) (Reference to role.role_id) user_id: INT (Primary Key) (Reference to user.user_id)
05	picture	picture_id: INT (Primary Key) back: VARCHAR(255) front: VARCHAR(255) main: VARCHAR(255) side: VARCHAR(255)
06	brand	brand_id: INT (Primary Key) brand_name: VARCHAR(255)
07	ordertb	order_date: DATE order_id: INT (Primary Key) total_price: DOUBLE user_id: INT (Foreign Key, Reference to user.user_id) status: VARCHAR(255)
08	order_item	order_id: INT (Reference to ordertb.order_id) order_item_id: INT (Primary Key) phone_id: INT (Foreign Key, Reference to phone.phone_id) quantity: INT

		total: DOUBLE
09	phone	brand_id: INT (Foreign Key, Reference to brand.brand_id) camera: DOUBLE display: DOUBLE memory: DOUBLE phone_id: INT (Primary Key) price: DOUBLE ram: INT release_date: DATE status: BIT(1) cpu: VARCHAR(255) origin: VARCHAR(255) product_name: VARCHAR(255) sim: VARCHAR(255) picture_id: INT (Foreign Key, Reference to picture.picture_id)
10	cart	cart_id: INT (Primary Key) quantity: INT total: DOUBLE
11	cart_item	cart_id: INT (Foreign Key, Reference to cart.cart_id) cart_item_id: INT (Primary Key) phone_id: INT (Foreign Key, Reference to phone.phone_id) quantity: INT total: DOUBLE
12	report	order_id: INT (Foreign Key, Reference to ordertb.order_id) report_id: INT (Primary Key) user_id: INT (Foreign Key, Reference to user.user_id) description: VARCHAR(255) status: VARCHAR(255)

3.2 Code packages

a. Diagram(s)



b. Package descriptions

No	Package	Description
01	Views	Top layer of spring boot, consist of views like HTML, the frontend part of application
01	Controllers	This package will receive request and response for client or redirect on application
02	Services	The business layer contains all the business logic. It consists of service classes. It is responsible for validation and authorization.
03	Repositories	The repositories package contains all the database storage logic. It is responsible for converting business objects to the database row
04	MySQL	Using MySQL
05	Exceptions	This package contains all exceptions that could be cause on application
06	Entities	This package contains all entities mapping with table on database
07	Utils	This package contains validate methods, convert methods, ...
08	Configurations	This package contains all configuration of the application consisting of security configuration,...
09	DTOs	This package contains all data transfer object

II. REQUIREMENTS SPECIFICATIONS

1. Authentication

1.1 UC-01_Register

UC ID and Name:	UC-01_Register		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	Admin, Manager
Trigger:	User click to register link on the header		
Description:	As a user, when want to using, buy product -> need register account to achieve this		
Preconditions:	User input valid information field		
Postconditions:	The information is valid, email and username is not duplicate in the system		
Normal Flow:	1. Users click the register link on the header 2.The system shows a register page for users. 3. User input user name and password, repeat password and email 4.User click register button		
Alternative Flows:	N/A		
Exceptions:	1.User exists 2.Email existed 3.Password not match		
Priority:	Major		
Frequency of Use:	Major		
Business Rules:	1.Username, password not be empty 2.Username not allow special character and max 16 characters 3.Password min 8 characters 4.Password repeat must match		
Other Information:	N/A		
Assumptions:	N/A		

1.2 UC-02_ForgotPassword

UC ID and Name:	UC-02_ Forgot password		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	Admin, Manager
Trigger:	User click to forgot password link on the login page		
Description:	As a user, when forgot password and want to reset password to using -> need reset pass login		
Preconditions:	User click forgot password link		
Postconditions:	User input the email registered in the system to reset password		
Normal Flow:	1. Users click the forgot link on the login page 2. The system shows a forgotten page for users. 3. User input email registered 4. User openmail received and click link reset password 5. User input pass and repeat match password to change		
Alternative Flows:	N/A		
Exceptions:	1.Password not match		
Priority:	Major		
Frequency of Use:	Major		
Business Rules:	1.Password min 8 characters 2.Password repeat must match		
Other Information:	N/A		
Assumptions:	N/A		

1.3 UC-03 Login

UC ID and Name:	UC-03_ Login		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	Admin, Manager
Trigger:	User click to login link on the header		
Description:	As a user, when want to using, buy product -> need login account to achieve this		
Preconditions:	Actors must login as "User".		
Postconditions:	The account is existed and active in system		
Normal Flow:	1. Users click the login link on the header 2.The system shows a login page for users. 3. User input user name and password. 4.User click login button		
Alternative Flows:	1.Enter url /page/login to access page 2.Action follow normal flow		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	Low		
Business Rules:	1.Username, password not be empty 2.Username not allow special character and max 16 characters 3.Password min 8 characters		
Other Information:	N/A		
Assumptions:	N/A		

1.4 UC-04_Logout

UC ID and Name:	UC-04_ Logout		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	Admin, Manager
Trigger:	User click to logout button on the header		
Description:	As a user, when not using system or want to login another account -> logout to achieve this		
Preconditions:	Already login		
Postconditions:	The login session is not expired		
Normal Flow:	1. Users click the logout link on the header		
Alternative Flows:	1.Enter url /logout to logout page		
Exceptions:	N/A		
Priority:	Low		
Frequency of Use:	Low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

1.5 UC-05_ResetPassword

UC ID and Name:	UC-05_ ResetPassword		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	Admin, Manager
Trigger:	User click to link receive in email to reset pass		
Description:	When receive email with link reset password		
Preconditions:	Request reset password		
Postconditions:	N/A		
Normal Flow:	User click to link receive in email to reset pass		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Low		
Frequency of Use:	Low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2. Guest's Authority

2.1.UC-06_ViewProducts

UC ID and Name:	UC-06_View Products		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Guest	Secondary Actors:	
Trigger:	The guest clicks the Shop section in navbar.		
Description:	As a guest, I want to view products or best seller products in the store		
Preconditions:	1. Actors must access the homepage.		
Postconditions:	Guest can view all products in shop.		
Normal Flow:	1. Users can view best seller products on the homepage. 2. User clicks the button “Shop” in the header bar. 3. The system shows all products present. 4. Users can click pagination to see the next product.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	high		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.2.UC-07_ViewProductsDetails

UC ID and Name:	UC-07_View Products Details		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Guest	Secondary Actors:	
Trigger:	The guest clicks an image of a product.		
Description:	As a guest, I want to view more information of products		
Preconditions:	Actors must access the homepage.		
Postconditions:	User can view all details of clicked product		
Normal Flow:	<ul style="list-style-type: none"> 1. User clicks the button “Shop” in the header bar. 2. The system shows all products present. 3. Users can click image products to see more information. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.3.UC-08_SearchProductByPrice

UC ID and Name:	UC-08_Search product by price.		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Guest	Secondary Actors:	
Trigger:	The user clicks the price section.		
Description:	As a guest, I want to search product by price		
Preconditions:	Actors must access the homepage.		
Postconditions:	List product will be shown in screen that was searched by price level		
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks the button “Shop” in the header bar. 2. The system shows all products present. 3. Users can click “Price” in the header of the list product to select the price range. 4. All products will be shown by the user's selected product by price range. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.4.UC-09_SearchProductName

UC ID and Name:	UC-09_Search product by name.		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Guest	Secondary Actors:	
Trigger:	The guest click the search icon in the header bar.		
Description:	As a guest, I want to search product by name		
Preconditions:	Actors must access the homepage.		
Postconditions:	List product will be shown in screen that was searched by name		
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks the button “Shop” in the header bar. 2. The system shows all products present. 3. Users can click icon search in the header bar to type name’s product . 4. All products will be shown list products by name. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	high		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.5.UC-10_ViewBrand

UC ID and Name:	UC-10_View brand.		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Guest	Secondary Actors:	
Trigger:	The guest clicks the Shop section in navbar.		
Description:	As a guest, I want to which brand of phones that store sells		
Preconditions:	Actors must access the homepage.		
Postconditions:	List brand will be shown in screen		
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks the button “Shop” in the header bar. 2. The system shows all brand sections present. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	high		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.6.UC-11_SearchProductByBrand

UC ID and Name:	UC-11_Search product by brand.		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Guest	Secondary Actors:	
Trigger:	The guest clicks the brand section.		
Description:	As a guest, I want to search product by brands		
Preconditions:	Actors must access the homepage.		
Postconditions:	List product will be shown in screen that was searched by brands		
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks the button “Shop” in the header bar. 2. The system shows all products present. 3. Users can click “Brand” in the header of the list product to select the brand. 4. All products will be shown by selected brands. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3. User's Authority

3.1 UC-12_ChangePassword

UC ID and Name:	UC-12_ Change password		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	Admin, Manager
Trigger:	User click to change password tab in profile page		
Description:	As a user, when want to change password		
Preconditions:	User click change password tab in profile page		
Postconditions:	User login session is not expired		
Normal Flow:	1. Users click the change pass tab on the profile page 2.The system shows a changepass page for users. 3. User input pass and repeat match password to change		
Alternative Flows:	N/A		
Exceptions:	1.Password not match		
Priority:	Major		
Frequency of Use:	Major		
Business Rules:	1.Password min 8 characters 2.Password repeat must match		
Other Information:	N/A		
Assumptions:	N/A		

3.2 UC-13_EditProfile

UC ID and Name:	UC-13_Edit profile		
Created By:	KhanhNN	Date Created:	26/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	The actor wants to edit the details of their profile		
Description:	As a user, I want to edit my profile so I can change address or phone as I want.		
Preconditions:	1. Actors must login as “User”.		
Postconditions:	A profile is updated successfully in the profile screen.		
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks the button “Hello (userName)” in the header bar. 2. The system shows the user’s profile details. 3. Users can be edited in fields that allow editing. 4. The actor clicks the “Save Changes” button. 5. The system redirects the actor back to the profile details. 6. The system shows updated details of users in their profile. 		
Alternative Flows:	N/A		
Exceptions:	3a. User types in invalid information in 2. 3a1. System alert invalid information message with each invalid field		
Priority:	Medium		
Frequency of Use:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.3 UC-14_ViewCart

UC ID and Name:	UC-14_View Cart		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the cart icon in the header bar.		
Description:	As a user, I want to see all my products in cart so I can manage them easily.		
Preconditions:	1. Actors must login as “User”. 2. Users can see all products in the store in the shop page.		
Postconditions:	User can view all products in the cart.		
Normal Flow:	1. Users click the Cart icon on the header bar. 2. People can see what products they've added to their cart and details of each product.		
Alternative Flows:	2.1 If the cart is empty, messages show on screen that they need to add at least one product to cart so they can see.		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.4 UC-15_AddProductToCart

UC ID and Name:	UC-15_Add product to cart		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click add to cart in other products.		
Description:	As a user, I want to add any product I want to cart so I can manage them easily.		
Preconditions:	1. Actors must login as “User”. 2. Users can see all products in the store in the shop page.		
Postconditions:	The user has added the product that they want and has displayed it in their shopping cart.		
Normal Flow:	1. Users click the Shop button on the header bar. 2. Users click any Products in the shop. 3. System shows the product's details. 4. User click add to cart button. 5. The system adds products which users want to cart. 6. The system will take users to the shop page to see more products. 7. Users click the cart icon in the header bar. 8. People can see what products they've added to their cart.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.5 UC-16_RemoveProductFromCart

UC ID and Name:	UC-16_Delete product from cart		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the delete button in other products.		
Description:	As a user, I want to remove any product I don't want from the cart so I can see only products I want.		
Preconditions:	1. Actors must login as “User”. 2. Users can see all products in their cart.		
Postconditions:	The user has deleted the product they wanted to delete from the cart and that product no longer exists in the cart.		
Normal Flow:	1. Users click the cart icon in the header bar. 2. The system shows a cart page for users. 3. People can see what products they've added to their cart. 4. User presses the delete button of the product they want to delete. 5. The system will display the products in the shopping cart, except for the product that has just been deleted.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.6 UC-17_EditProductInCart

UC ID and Name:	UC-17_Edit product quantity in cart		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click up or down in the number input field to adjust the quantity of each product.		
Description:	As a user, I want to adjust the quantity of my cart so I can buy many products at one time.		
Preconditions:	1. Actors must login as “User”. 2. Users can see all products in their cart.		
Postconditions:	Users can see the product quantity after they adjust the quantity in the shopping cart.		
Normal Flow:	1. Users click the cart icon in the header bar. 2. The system shows a cart page for users. 3. People can see what products they've added to their cart. 4. User click up or down in the number input fields to update the quantity of each product. 5. The system will display the revised product list in the user's shopping cart, plus the total price of each product and the total price of the entire shopping cart.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.7 UC-18_CheckOutCart

UC ID and Name:	UC-18_Checkout from cart		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the Checkout button in the cart page.		
Description:	As a user, I want to check out my cart so I can start buying products in this shop.		
Preconditions:	1. Actors must login as “User”. 2. Users can see all products in their cart.		
Postconditions:	Users can checkout all products in their cart and come to the Checkout page.		
Normal Flow:	1. Users click the cart icon in the header bar. 2. The system shows a cart page for users. 3. People can see what products they've added to their cart. 4. User click the Checkout button. 5. The system will display to confirm that the user really wants to check out their cart. 6. If yes, the system redirect user to checkout page and they can see details of their profile and details of product they want to checkout.		
Alternative Flows:	N/A		
Exceptions:	6.1 If the cart is empty, the system shows that users need to add at least one product to cart so they can order.		
Priority:	Medium		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.8 UC-19 PlaceOrderFromCart

UC ID and Name:	UC-19_Place Order from Cart		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the Checkout button, and click Place Order button in the checkout Page.		
Description:	As a user, I want to place orders so I can order any products I want in the shop.		
Preconditions:	1. Actors must login as “User”. 2. Users can see all products in their cart.		
Postconditions:	The user has placed their order and the system will display that order on the order management page.		
Normal Flow:	1. Users click the cart icon in the header bar. 2. The system shows a cart page for users. 3. People can see what products they've added to their cart. 4. User click the Checkout button. 5. The system will display the checkout page, including all products in the user's cart they want to buy and necessary information of the user to confirm the order. 6. User clicks the Place Order button. 7. The system redirects users to the Order page, including their order they just ordered. 8. People can see what products they've ordered.		
Alternative Flows:	N/A		
Exceptions:	4a. Cart item of the user is empty. 4a1. System alerts need to add at least 1 product to checkout. 5a. User types in invalid information in user information in 5. 5a1. System alert invalid information message with each invalid field.		
Priority:	High		
Frequency of Use:	Low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.9 UC-20_CancelOrder

UC ID and Name:	UC-21_Cancel order		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the cancel button in their order.		
Description:	As a user, I would like to cancel my order so I can reconsider my selection or edit my details.		
Preconditions:	1. Actors must login as “User”.		
Postconditions:	The user has canceled his order in the system.		
Normal Flow:	1. Users click the order icon in the header bar. 2. The system shows an order page for users. 3. People can see what orders they have ordered. 4. User presses the cancel button of the product they want to delete. 5. The system displays a confirmation message confirming whether or not the order is definitely canceled. 6. If yes, the system will return the order status as canceled. 7. System redirects user to Order page 8. User can see the status of their order.		
Alternative Flows:	N/A		
Exceptions:	4a. Users will not cancel their order if the Manager confirms status is “Approved”.		
Priority:	High		
Frequency of Use:	Low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.10 UC-21_ViewOrderHistory

UC ID and Name:	UC-21_View order history		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the order icon in the header bar.		
Description:	I want to view all order history so I can see the order date and product in each order.		
Preconditions:	Actors must login as "User".		
Postconditions:	Users can access their order history on the system.		
Normal Flow:	1. Users click the order icon in the header bar. 2. The system shows an order page for users. 3. People can see order information in each order.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.11 UC-22_ViewOrderDetails

UC ID and Name:	UC-22_View order details		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the detail button in each order.		
Description:	I want to view order information so I can see the products I ordered and their prices.		
Preconditions:	Actors must login as “User”. Users can see all orders in the order page.		
Postconditions:	Users can see information about the orders they have placed.		
Normal Flow:	1. Users click the order icon in the header bar. 2. The system shows an order page for users. 3. Users can see the order list on this page. 4. Users click the Detail button in each order. 5. System shows the order detail page of this order. 6. Users can view details of order: total, product, quantity.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.12 UC-23_ViewReportDetails

UC ID and Name:	UC-23_View order details		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the report button in other orders.		
Description:	As a user, I want to see my report details so that I can know what notifications I have sent with this order and what problems there are.		
Preconditions:	Actors must login as "User". Users can see all orders in the order page.		
Postconditions:	Users can see information or report details of their order.		
Normal Flow:	1. Users click the order icon in the header bar. 2. The system shows an order page for users. 3. Users can see the order list on this page. 4. User presses the report button of the order they choose. 5. The system will display a report page, including information about the report that the user sends to the manager.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.13 UC-24_AddNewReport

UC ID and Name:	UC-24_ Add new report		
Created By:	KhanhNN	Date Created:	27/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the submit button in the report page to submit.		
Description:	As a user, I want to send a report about the order I placed to the manager, which will help me receive support about the order from the shop.		
Preconditions:	Actors must login as “User”. Users can see all orders in the order page.		
Postconditions:	The user has sent a report to the manager in the system.		
Normal Flow:	1. Users click the order icon in the header bar. 2. The system shows an order page for users. 3. Users can see the order list on this page. 4. User presses the report button of the order they choose. 5. The system will display a report page. 6. User can fill the information about order: issue, rate, evaluate. 7. User click submit button. 8. The system redirects the user to a website to notify that this customer feedback will be replied to via email.		
Alternative Flows:	N/A		
Exceptions:	4a. Users will not report with their order if the Manager does not confirm status is “Completed”. 6a. If the order already has a report, the user cannot add a new one.		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

3.14 UC-25_DeleteReport

UC ID and Name:	UC-25_ Delete report		
Created By:	KhanhNN	Date Created:	28/06/2024
Primary Actor:	User	Secondary Actors:	
Trigger:	Users click the delete button in other reports.		
Description:	As a user, I want to delete the report about the order I sent, so I can think and review my report.		
Preconditions:	Actors must login as “User”. Users can see all order lists in the order page. Have an exist report in this order what the user wants to delete.		
Postconditions:	The user has deleted the report they wanted to delete.		
Normal Flow:	1. Users click the order icon in the header bar. 2. The system shows an order page for users. 3. People can see the order list on this page. 4. User presses the report button of the order they choose. 5. The system shows a report page. 6. User click the Delete button in this page. 7. The system displays a confirmation message confirming whether or not the report is definitely removed. 8. If yes, the system will remove the report and redirect the user to order.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	Low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

4. Admin's Authority

4.1 UC-26_ViewUserDetail

UC ID and Name:	UC-26_ViewUserDetail		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	Admin	Secondary Actors:	N/A
Trigger:	Admin login with admin account to access admin dashboard		
Description:	Admin have overview of all user in the system and account status Admin can see all user detail information		
Preconditions:	Account must login with the role "ADMIN".		
Postconditions:	N/A		
Normal Flow:	1.Admin login with an admin account. 2.User list display in the admin dashboard 3.Admin click to detail button to see user detail		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Major		
Frequency of Manager:	High		
Business Rules:	N/A		

4.2 UC-27_ViewUserList

UC ID and Name:	UC-27_ View user list		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	Admin	Secondary Actors:	N/A
Trigger:	Admin login with admin account to access admin dashboard		
Description:	Admin have overview of all user in the system and account status		
Preconditions:	Account must login with the role “ADMIN”.		
Postconditions:	There is available account in the systems		
Normal Flow:	1.Admin login with an admin account. 2.User list display in the admin dashboard 3.Admin can manage all account in this list 4.Change role of an account 5.Change status of a account 6.Add new account with role admin or manager		
Alternative Flows:	N/A		
Exceptions:	User edit param in url to change page or account id		
Priority:	Major		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

4.3 UC-28_ChangeRoleAccount

UC ID and Name:	UC-28_ Change role account		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	Admin	Secondary Actors:	N/A
Trigger:	Admin login with admin account to access admin dashboard		
Description:	Admin have overview of all user in the system and account status		
Preconditions:	Account must login with the role “ADMIN”. Account change role is not current authentication account		
Postconditions:	Role after change is different from before role		
Normal Flow:	1.Admin login with an admin account. 2.User list display in the admin dashboard 3.Admin select another role for selected account		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Major		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

4.4 UC-29_ChangeStatusAccount

UC ID and Name:	UC-29_Change status account		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	Admin	Secondary Actors:	N/A
Trigger:	Admin login with admin account to access admin dashboard		
Description:	Admin have overview of all user in the system and account status		
Preconditions:	Account must login with the role “ADMIN”. Account change status is not current authentication account		
Postconditions:	N/A		
Normal Flow:	1.Admin login with an admin account. 2.User list display in the admin dashboard 3.Admin click button status (ACTIVE or INACTIVE) for selected account		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Major		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

4.5 UC-30_SearchAccount

UC ID and Name:	UC-30_ Search account		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	Admin	Secondary Actors:	N/A
Trigger:	Admin login with admin account to access admin dashboard		
Description:	Admin have overview of all user in the system and account status Search by name, first name, last name, email, phone		
Preconditions:	Account must login with the role “ADMIN”. Admin input information want to search into input text		
Postconditions:	N/A		
Normal Flow:	1.Admin login with an admin account. 2.User list display in the admin dashboard 3.Admin search information by input to input box		
Alternative Flows:	N/A		
Exceptions:	Not found any match		
Priority:	Major		
Frequency of Manager:	High		
Business Rules:	N/A		

4.6 UC-31_CreateAccount

UC ID and Name:	UC-31_Create account		
Created By:	LongDT	Date Created:	28/06/2024
Primary Actor:	Admin	Secondary Actors:	N/A
Trigger:	Admin create account for manager and other admin		
Description:	Admin have create account for manager or other admin		
Preconditions:	Account must login with the role “ADMIN”. Admin input information valid		
Postconditions:	N/A		
Normal Flow:	1.Admin login with an admin account. 2.Click create account button 3.Fill form and create account button		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Major		
Frequency of Manager:	High		
Business Rules:	N/A		

5. Manager's Authority

5.1.UC-32_ViewProducts

UC ID and Name:	UC-32_View Products		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	The manager clicks the product section in the header bar.		
Description:	As a manager, I want to view products in the store		
Preconditions:	Actors must login as "User".		
Postconditions:	Manager can view all the products.		
Normal Flow:	<ol style="list-style-type: none">Manager Clicks the button "Products" in the header bar.The system shows all products present.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.2.UC-33_ViewProductsDetail

UC ID and Name:	UC-33_View Products detail		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	The actor clicks the edit section.		
Description:	As a manager, I want to view products detail in the store		
Preconditions:	1. Actors must login as "Manager". 2. Manager can see all products in the manager page.		
Postconditions:	Manager can view all details of a products.		
Normal Flow:	1. Manager can click the edit button of each phone to see the detailed phone 2. The system shows all details of selected product. .		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.3 UC-34 _AddProduct

UC ID and Name:	UC-34_ Add new Phone		
Created By:	HienPM	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager clicks the add button to add a new phone.		
Description:	As a manager, I want to add a new phone.		
Preconditions:	1. Actors must login as “Manager”. 2. Manager clicks the product section in the header bar.		
Postconditions:	Messages confirmed added successfully must be shown.		
Normal Flow:	1. Manager can see the phone list on this page. 2. Manager presses the add new product button. 3. The system shows an add-product page. 4. Manager clicks the Add button on this page. 5. The system validates the entered information. 6. The system displays a confirmation message confirming whether or not the phone is definitely added. 7. If yes or no, the system still keeps on that page for the next phone.		
Alternative Flows:	N/A		
Exceptions:	5a. The entered information for the new product is invalid or incomplete in 5. In this case, the system prompts the manager to correct the information before proceeding with the creation.		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.4 UC-35_InactiveOrActiveProduct

UC ID and Name:	UC-35_ Inactive or active Phone		
Created By:	HienPM	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager clicks the icon status to inactive or active of phone.		
Description:	As a manager, I want to inactive or active of a phone if phone is in-stock or out-stock		
Preconditions:	1. Actors must login as “Manager”. 2. clicks the product section in the header bar.		
Postconditions:	The status of the phone must be present in the list phone.		
Normal Flow:	1. Manager can see the phone list on this page. 2. Manager presses the icon status of the product. 3. The system shows a message to confirm the change to inactive or active successfully of the phone		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.5 UC-36_EditProduct

UC ID and Name:	UC-36-Edit new Phone		
Created By:	HienPM	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager clicks the edit button to edit a phone.		
Description:	As a manager, I want to edit a phone to update information or fix wrong details.		
Preconditions:	1. Actors must login as “Manager”. 2. Manager clicks the product section in the header bar.		
Postconditions:	The edited phone must be updated and present the message.		
Normal Flow:	1. Manager can see the phone list on this page. 2. Manager presses the edit product button. 3. The system shows an add-product page. 4. Manager fills all the information except the id of the phone and picture in this page. 5. The system validates the entered information. 6. The system displays a confirmation message confirming whether or not the phone is definitely updated. 7. If yes, the system directs to the products page for the next turn edit.		
Alternative Flows:	N/A		
Exceptions:	5a. The entered information for the product is invalid or incomplete in 5. In this case, the system prompts the manager to correct the information before proceeding with the creation.		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.6.UC-37_SearchProductName

UC ID and Name:	UC-37_Search product by name.		
Created By:	HienPM	Date Created:	26/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	The actor wants to search products by name		
Description:	As a manager, I want to search product by name		
Preconditions:	1. Actors must login as “Manager”. 2. Manager clicks the product section in the header bar.		
Postconditions:	List phone will be shown in screen that was searched by name		
Normal Flow:	1. Users can click icon search to type name’s product . 2. All products will be shown by the user selected product by name.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.7 UC-38 _AddNew Brand

UC ID and Name:	UC-38_ Add new brand		
Created By:	HienPM	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager clicks the add button to add a new brand.		
Description:	As a manager, I want to add a new brand.		
Preconditions:	1. Actors must login as “Manager”. 2. Manager clicks the product section in the header bar.		
Postconditions:	The added brand must be present in the list brand.		
Normal Flow:	1. Manager can see the brand list on this page. 2. Manager presses the add new brand button. 3. The system shows an add-brand page. 4. Manager clicks the Add button on this page. 5. The system validates the entered information. 6. The system displays a confirmation message confirming whether or not the phone is definitely added. 7. If yes or no, the system still keeps on that page for the next brand.		
Alternative Flows:	N/A		
Exceptions:	5a. The entered information for the new product is invalid or incomplete in 5. In this case, the system prompts the manager to correct the information before proceeding with the creation.		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.8 UC-39_UpdateBrand

UC ID and Name:	UC-39_ Update brand		
Created By:	HienPM	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager clicks the edit button to update a brand.		
Description:	As a manager, I want to edit a brand to update information or fix wrong details.		
Preconditions:	1. Actors must login as “Manager”. 2. Manager clicks the product section in the header bar.		
Postconditions:	The edited brand must be updated and present the message..		
Normal Flow:	1. Manager can see the brand list on this page. 2. Manager presses the edit brand button. 3. The system shows an edit-brand page. 4. Manager fills all information except id of brand in this page. 5. The system validates the entered information. 6. The system displays a confirmation message confirming whether or not the phone is definitely updated. 7. If yes, the system directs to the products page for the next turn edit.		
Alternative Flows:	N/A		
Exceptions:	5a. The entered information for the product is invalid or incomplete in 5. In this case, the system prompts the manager to correct the information before proceeding with the creation.		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.9 UC-40_SelectProductByStatus

UC ID and Name:	UC-40_ Select phone by status		
Created By:	HienPM	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager clicks the status select to list phones by status selected.		
Description:	As a manager, I want to select phones by status to manage phone quickly.		
Preconditions:	1. Actors must login as “Manager”. 2. Manager clicks the product section in the header bar.		
Postconditions:	The list phone selected by status must be shown		
Normal Flow:	1. Manager can see the phone list on this page. 2. Manager select status. 3. The system shows the list of phones selected by status on this page. 4. Manager can click pagination to see the next phone.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.10 UC-41_ViewReports

UC ID and Name:	UC-41_ View Reports		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to see the list of report		
Description:	As a manager, I want to see the list of report from user's orders		
Preconditions:	Actors must login as "Manager".		
Postconditions:	N/A		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button "Report" in the header bar. 2. The system shows all reports present. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.11 UC-42_ViewReportDetails

UC ID and Name:	UC-42_ View Report Details		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to see the detail of each report		
Description:	As a manager, I want to see the detail of each report from user's orders		
Preconditions:	Actors must login as "Manager".		
Postconditions:	N/A		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button "Detail" from the desired report. 2. The system shows the details of the report. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.12 UC-43_SearchReportByDate

UC ID and Name:	UC-43_ Search Report By Date		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to search report by date		
Description:	As a manager, I want to search report by date, so I can manage report easily		
Preconditions:	Actors must login as “Manager”.		
Postconditions:	List of report will be shown that was search by date		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button “Report” in the header bar. 2. The system shows all reports present. 3. User enter start time and date time into the search bar 4. All reports will be shown by the searched date 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Manager:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.13 UC-44_SearchReportByUserName

UC ID and Name:	UC-44_ Search Report By User Id		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to search report by user name		
Description:	As a manager, I want to search report by user name		
Preconditions:	Actors must login as “Manager”.		
Postconditions:	List of report will be shown that was search by username		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button “Report” in the header bar. 2. The system shows all reports present. 3. User enter user name into the search bar 4. All reports will be shown by the searched user name 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Manager:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.14 UC-45_ViewOrders

UC ID and Name:	UC-45_ View Orders		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to see the list of order		
Description:	As a manager, I want to see the list of order		
Preconditions:	Actors must login as “Manager”.		
Postconditions:	N/A		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button “Order” in the header bar. 2. The system shows all orders present. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.15 UC-46_ViewOrderDetails

UC ID and Name:	UC-46_ View Order Details		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to see the details of each order		
Description:	As a manager, I want to see the details of each order		
Preconditions:	Actors must login as “Manager”.		
Postconditions:	N/A		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button “Detail” from the desired order. 2. The system shows the details of the order. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.16 UC-47_ChangeOrderStatus

UC ID and Name:	UC-47_ Change Order Status		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to change the status of each order		
Description:	As a manager, I want to change the status of each order		
Preconditions:	Actors must login as "Manager".		
Postconditions:	The status of the order must be updated after each change		
Normal Flow:	<ol style="list-style-type: none"> Manager either clicks the button "Approved" or "Rejected" from the desired order with the "Pending" status. The system shows the updated status of the order. 		
Alternative Flows:	If the order status is "Approved" user can click the "Completed" button to change the status		
Exceptions:			
Priority:	High		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.17 UC-48_SearchOrderByUserName

UC ID and Name:	UC-48_ Search Order By User Name		
Created By:	TamTQ	Date Created:	28/06/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager want to search order by user name		
Description:	As a manager, I want to search order by user name		
Preconditions:	Actors must login as “Manager”.		
Postconditions:	List of order will be shown that was search by username		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button “Order” in the header bar. 2. The system shows all orders present. 3. User enter user name into the search bar 4. All orders will be shown by the searched user name. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Manager:	Sometimes		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

5.18 UC-49_SearchOrderByDate

UC ID and Name:	UC-49_ Search Order By Date
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Created By:	TamTQ	Date Created:	10/07/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager needs to come to the manager page.		
Description:	As a manager, I want to search for orders by date.		
Preconditions:	Actors must login as "Manager".		
Postconditions:	List of order will be shown that was search by date		
Normal Flow:	<ol style="list-style-type: none"> 1. Manager Clicks the button "Order" in the header bar. 2. The system shows all orders present. 3. User pick start time and end time into the date picker 4. All orders will be shown by the searched date. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

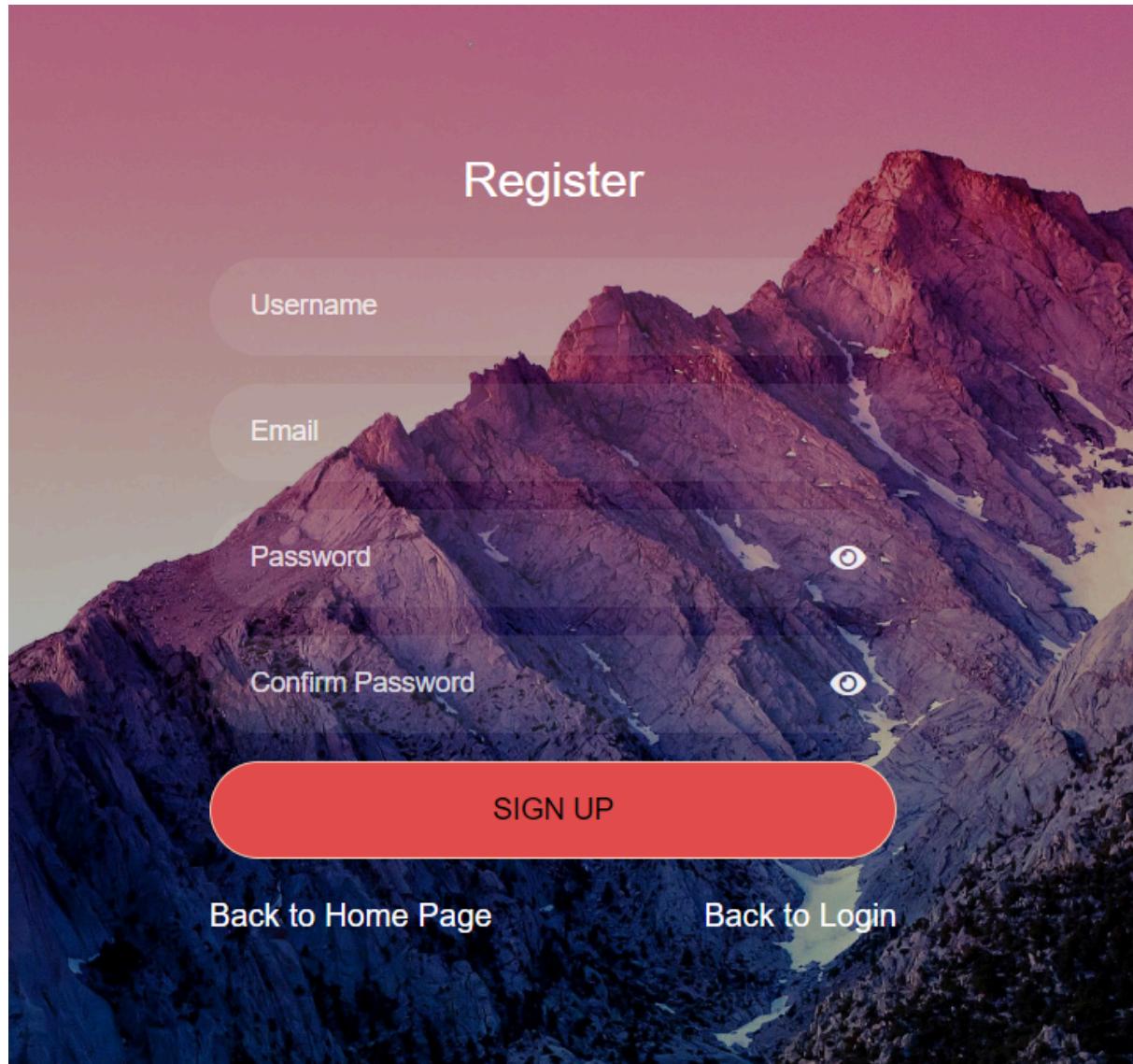
5.19 UC-50_ViewStatisticsDashboard

UC ID and Name:	UC-50_ViewStatisticsDashboard		
Created By:	HienPM	Date Created:	10/07/2024
Primary Actor:	Manager	Secondary Actors:	
Trigger:	Manager needs click to statistics button in header bar.		
Description:	As a manager, I want to search view view all statistic in the shop so I can have overall		
Preconditions:	Actors must login as “Manager”.		
Postconditions:	List of order will be shown that was search by username		
Normal Flow:	1. Manager Clicks the button “Statistics” in the header bar. 2. The system shows all statistical information.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Manager:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

III. DESIGN SPECIFICATIONS

1. Authentication Features

1.1 Register

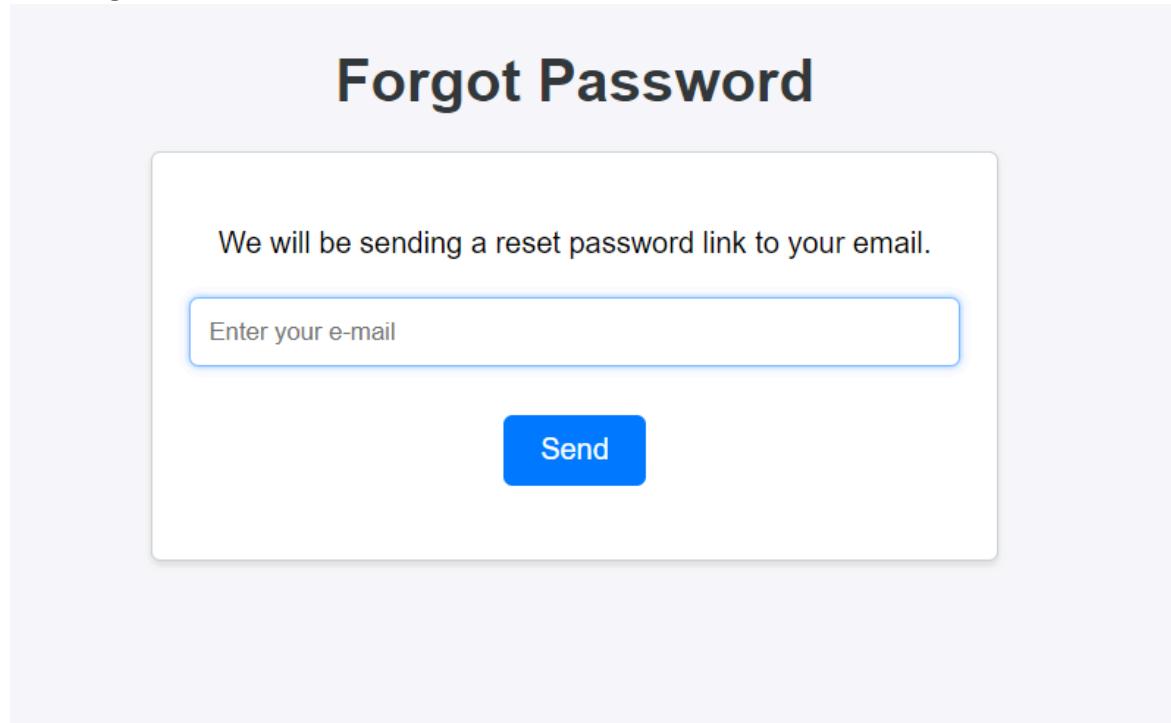


Field Name	Field Type	Description
UserName	Text	This is for users to fill their username.
Email	Text	This is for users to fill their email.
Password	Text	This is for users to fill their password.
Confirm Password	Text	This is for users to confirm their password.
Data action		
Back to Home Page	Link	Click to redirect home page.
Sign Up	Button	This is for user to create new account in the system
Back to Login	Link	Click to redirect login.

Database Access

Table	CRUD	Description
User/UserDetail	C	Create new user and user details in the system.

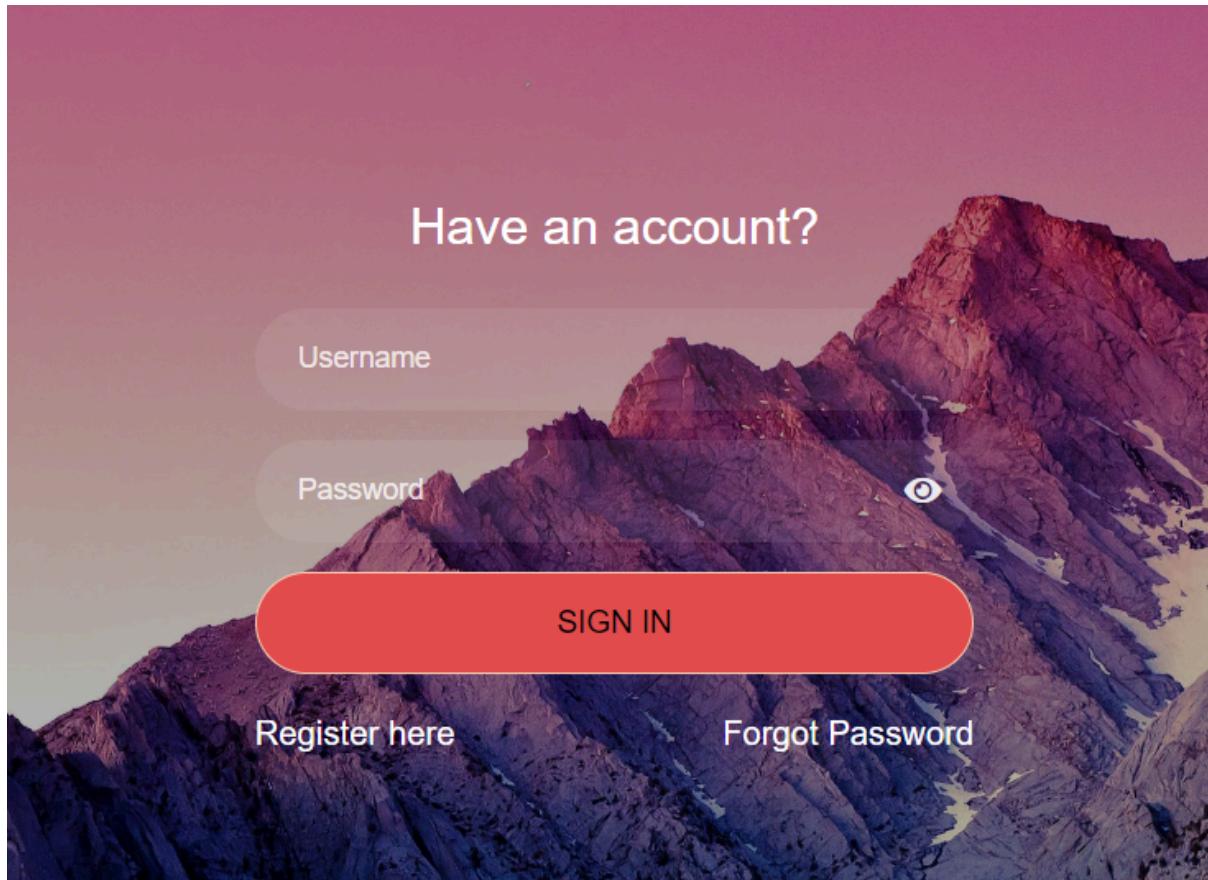
1.2 ForgotPassword



The screenshot shows a 'Forgot Password' form. At the top center, it says 'Forgot Password'. Below that, a message reads 'We will be sending a reset password link to your email.' There is a text input field with the placeholder 'Enter your e-mail'. At the bottom right of the input field is a blue button labeled 'Send'.

Field Name	Field Type	Description
Email	Text	This is for users to fill their email.
Data action		
Send	Button	User click to system send confirm email to user to confirm that forgot password is true.

1.3 Login

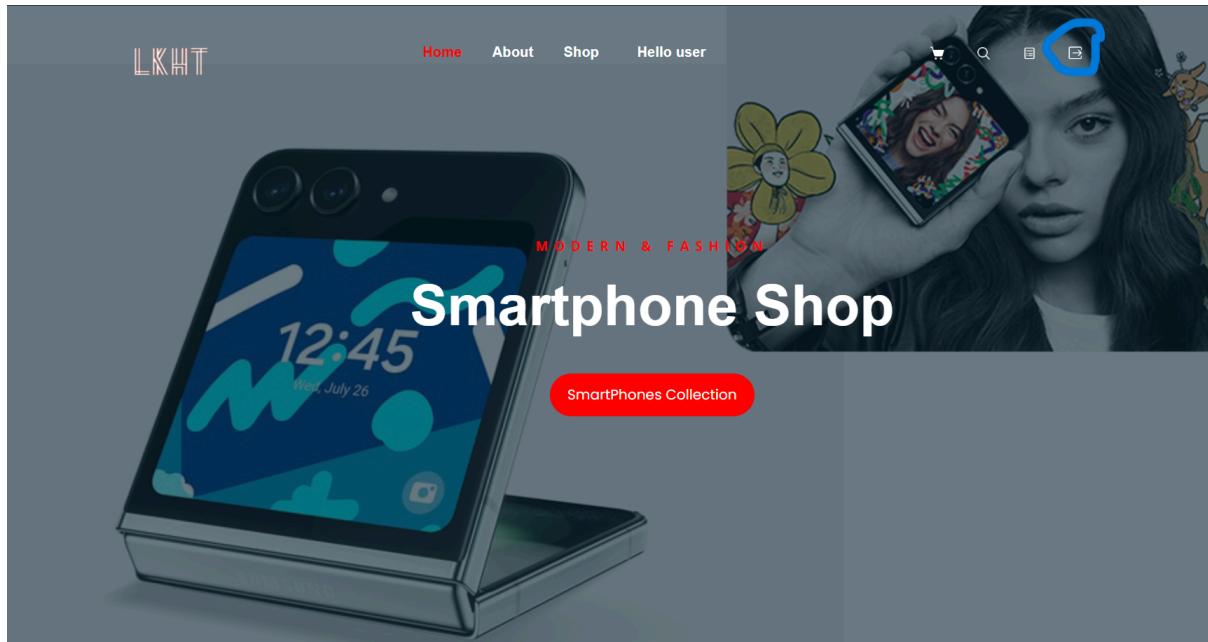


Field Name	Field Type	Description
UserName	Text	This is for users to fill their username.
Password	Text	This is for users to fill their password.
<i>Data action</i>		
Register here	Link	Click to redirect the register page.
Sign In	Button	This is for user to login to the system.
Forgot Password	Link	Click to redirect forgot password page.

Database Access

Table	CRUD	Description
User/UserDetail	R	Check accounts exist in the system.

1.4 Logout



Data action		
Logout	Button	This is for user to logout to the system.

1.5 ResetPassword

The image shows a 'Reset Your Password' form. At the top, the title 'Reset Your Password' is displayed in a large, bold, dark font. Below it, the message 'Invalid Token' is shown in a smaller, dark font. The form itself has a light gray background with rounded corners. It contains two input fields: one labeled 'Enter your new password' and another labeled 'Confirm your new password'. A large blue button at the bottom is labeled 'Change Password'. The entire form is centered on a white page.

Field Name	Field Type	Description
Password	Text	This is for users to fill their username.
Password confirm	Text	This is for users to fill their confirm password.
Data action		
Change Password	Button	Click to change password.

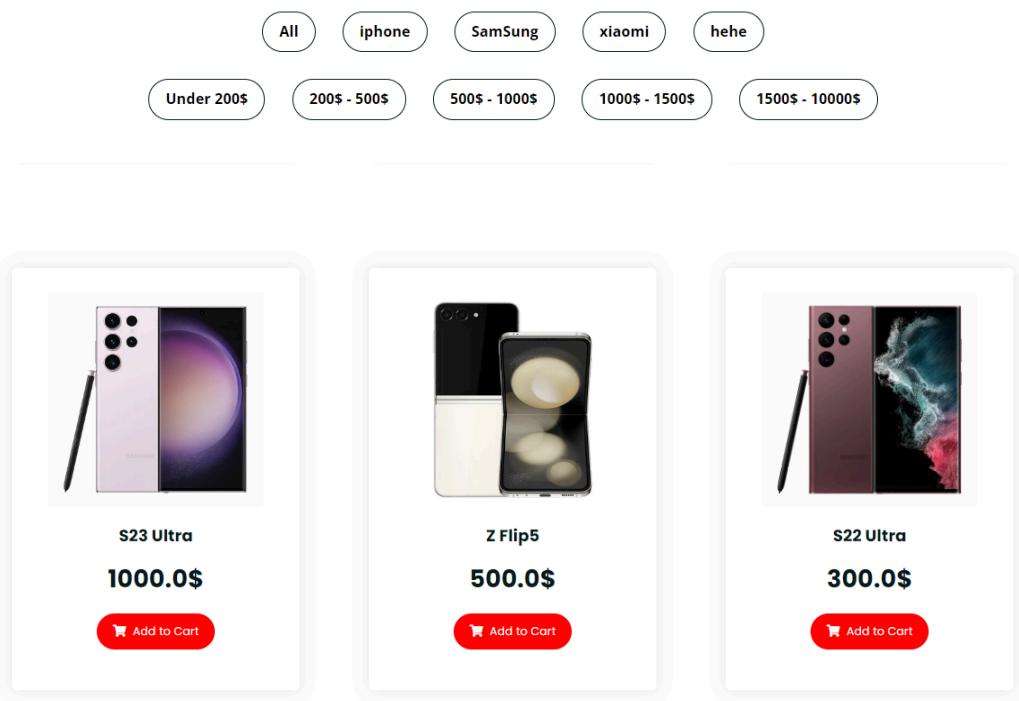
Database Access

Table	CRUD	Description
User	U	Update password after reset request

2. Guest Features

2.1 ViewAllPhone

UI Design



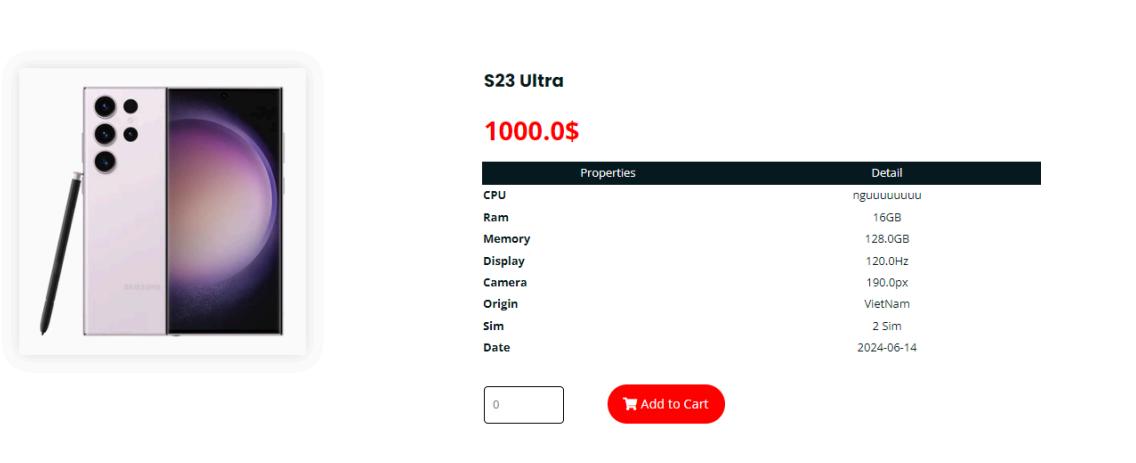
Field Name	Field Type	Description
Name	Text	This is for users to view their name.
Price	Text	This is for users to view their price.
Data action		
Image	Link	Click to view details of this phone.
Add to Cart	Button	Add this phone to cart.
Pagination	Link	Click to view next phone.

Database Access

Table	CRUD	Description
Phone	R	view best sale phones in the page

2.2 ViewDetailProduct

UI Design



Field Name	Field Type	Description
Name	Text	This is for users to view their name.
Price	Text	This is for users to view their price.
CPU	Text	This is for users to view their cpu.
Ram	Text	This is for users to view their ram.
Memory	Text	This is for users to view their memory.
Display	Text	This is for users to view their display.
Camera	Text	This is for users to view their camera.
Origin	Text	This is for users to view their origin.
Sim	Text	This is for users to view their sim.
Date	Text	This is for users to view their date.
Quantity	Quantity	This is for users to fill in the quantity for purchasing.
Add to cart	Button	This is for users to view add this phone to cart.
Data action		
Image	link a	Click to view details of this phone.
Add to Cart	Button	Add this phone to cart.
Quantity	Quantity	Fill in the number of quantities to purchasing

Database Access

Table	CRUD	Description
Phone	R	view details of the phone.

2.3 SearchPhoneByBrand

UI Design



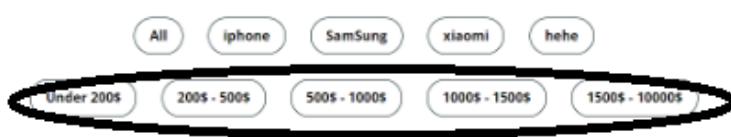
Field Name	Field Type	Description
Brand	Button	This is for users to view phone by selected brand.
Data action		
Brand	Button	Clink to phone by selected brand.

Database Access

Table	CRUD	Description
Phone	R	view phones by selected brand

2.4 SearchPhoneByPrice

UI Design



Field Name	Field Type	Description
Brand	Button	This is for users to view phone by selected price.
Data action		
Brand	Button	Clink to phone by selected brand.

Database Access

Table	CRUD	Description
Phone	R	view phones by selected price

3. User Features

3.2 EditProfile

UI Design

PROFILE USER

General
Change password

Username	<input type="text" value="user"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Email	<input type="text" value="khanhnguyennam04@gmail.com"/>
Phone	<input type="text" value="Phone (09xxxxxxxx)"/>
Address	<input type="text"/>

[Save changes](#)
[Back to home](#)

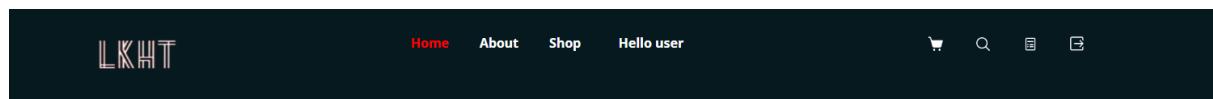
Field Name	Field Type	Description
UserName	Text box	This is for users to view their UserName.
First Name	Text box	This is for users to edit the first name for their profile.
Last Name	Text box	This is for users to edit the last name for their profile.
Gender	Combo box Single-choice	This is for users to edit a gender for their profile.
Email	Text box	This is for users to edit an email for their profile.
Phone	Text box	This is for users to edit a phone for their profile.
Address	Text box	This is for users to edit an address for their profile.
Data action		
Save changes	Button	Click to update the User Detail in the database and redirect users to the profile screen.
Back to home	Button	Redirect user to Home page.

Database Access

Table	CRUD	Description
User detail	U	Update an existing profile in the page

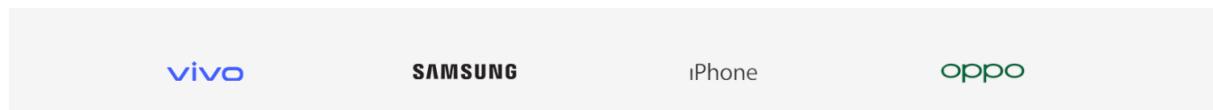
3.3 ViewCartDetails

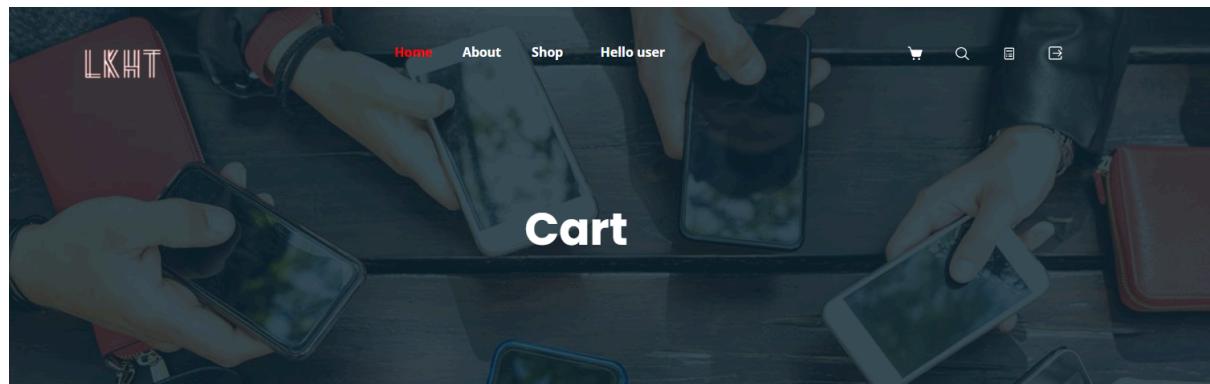
UI Design



Product Image		Name	Price	Quantity	Total	Total		Price
<input checked="" type="checkbox"/>		iPhone 15 Pro	900.0	<input type="text" value="1"/>	900.0\$	Total:		2000.0\$
<input checked="" type="checkbox"/>		iPhone 15	700.0	<input type="text" value="1"/>	700.0\$			
<input checked="" type="checkbox"/>		Z Flip 4	400.0	<input type="text" value="1"/>	400.0\$			

Check Out





You have not added any products to your cart, please add at least 1 product to see your cart.

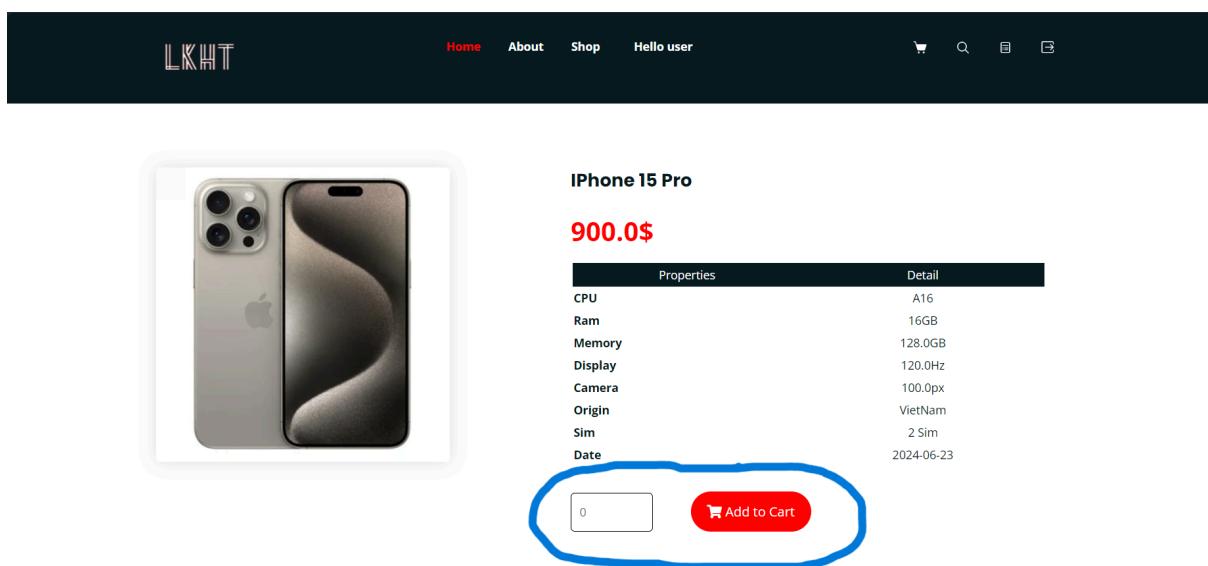
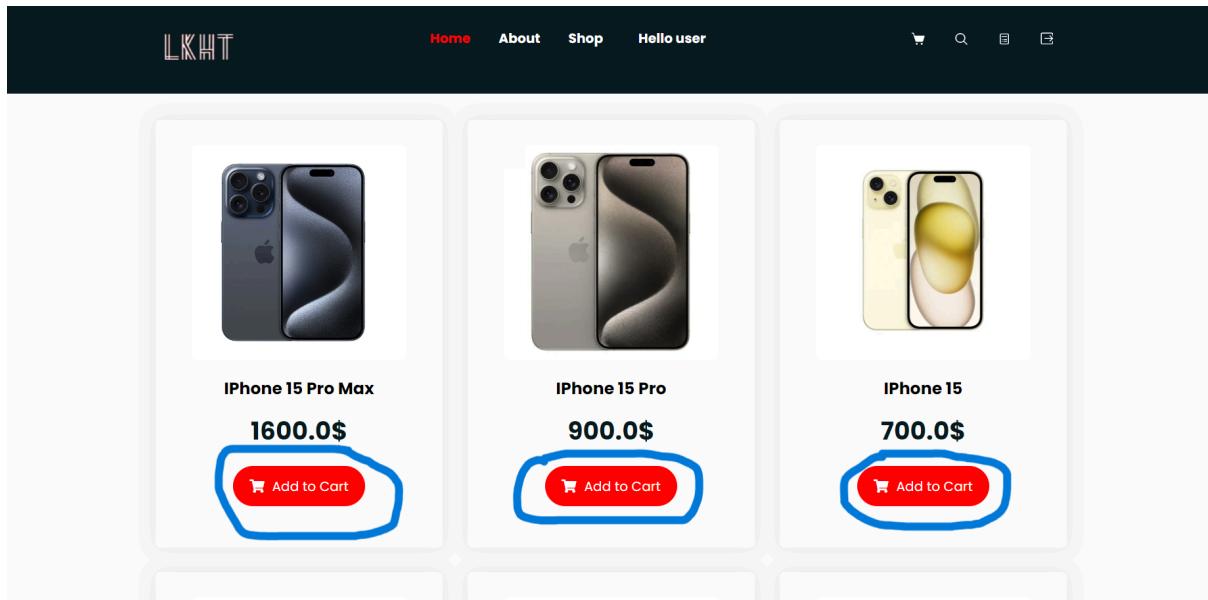
Field Name	Field Type	Description
Product Image	Text	This is for users to view their image of the product.
Name	Text	This is for users to view the name of the product.
Price	Text	This is for users to view the price of the product.
Quantity	Number	This is for users to view the quantity of the product.
Total	Text	This is for users to view the total of the product.
Price All	Text	This is for users to view the price of all products in the cart.
Data action		
Checkout	Button	Click if you want to check out all products in the cart for buying.

Database Access

Table	CRUD	Description
Cart item	R	View all Cart items in cart.

3.4 AddProductToCart

UI Design



Data action

Add to cart

Button

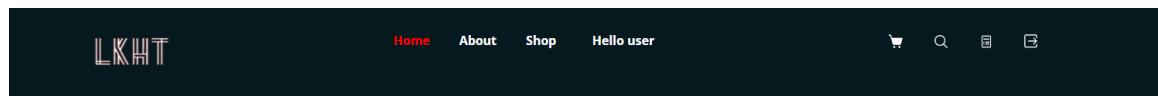
Click if you want to add any product to your cart.

Database Access

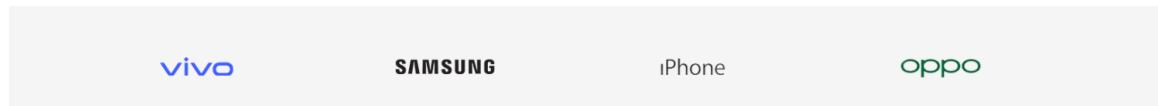
Table	CRUD	Description
Cart item	C	Add product to Cart

3.5 RemoveProductFromCart

UI Design



Product Image	Name	Price	Quantity	Total	Total	Price
	iPhone 15 Pro	900.0	<input type="text" value="1"/>	900.0\$	Total:	2000.0\$
	iPhone 15	700.0	<input type="text" value="1"/>	700.0\$		
	Z Flip 4	400.0	<input type="text" value="1"/>	400.0\$		



Data action

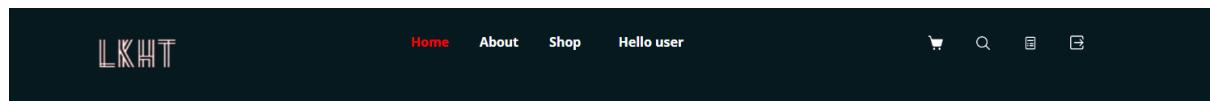
Delete	Button	Click if you want to delete any products in your cart.
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Database Access

Table	CRUD	Description
Cart item	D	Delete products in cart.

3.6 EditProductInCart

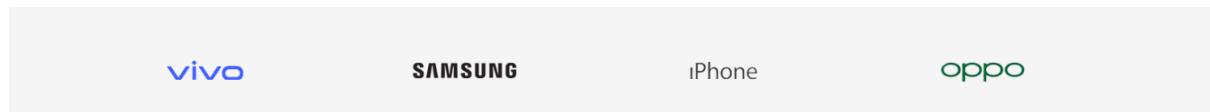
UI Design



	Product Image	Name	Price	Quantity	Total
<input type="checkbox"/>		iPhone 15 Pro	900.0	<input type="text" value="1"/>	900.0\$
<input type="checkbox"/>		iPhone 15	700.0	<input type="text" value="1"/>	700.0\$
<input type="checkbox"/>		Z Flip 4	400.0	<input type="text" value="1"/>	400.0\$

Total: 2000.0\$

Check Out



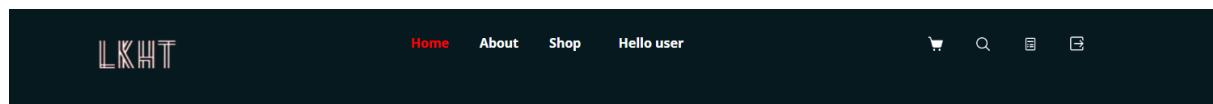
Data action		
NumericUpdown	Button	Click if you want to increase or decrease the quantity of each product in the cart.

Database Access

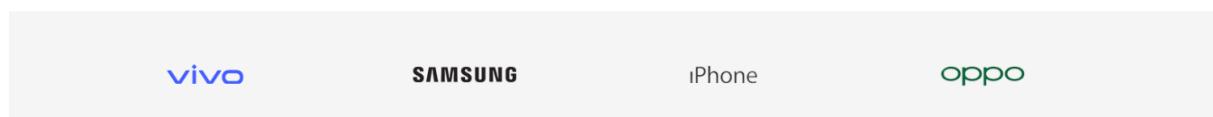
Table	CRUD	Description
Cart item	U	Update quantity of each product in cart.

3.7 CheckoutCart

UI Design



Product Image		Name	Price	Quantity	Total	Total	Price
<input type="checkbox"/>		iPhone 15 Pro	900.0	<input type="text" value="1"/>	900.0\$	Total:	2000.0\$
<input type="checkbox"/>		iPhone 15	700.0	<input type="text" value="1"/>	700.0\$	Check Out	
<input type="checkbox"/>		Z Flip 4	400.0	<input type="text" value="1"/>	400.0\$		



Billing Address

First Name: Nguyễn

Last Name: Khanh

Address: 8 ngõ gach

Phone Number: 0978262446

Place Order

Your order Details	Price
Product	Total
iPhone 15 Pro	2700.0\$
Total	2700.0\$

Field Name	Field Type	Description
First Name	Text box	This is for users to edit the first name for their profile.
Last Name	Text box	This is for users to edit the last name for their profile.
Phone	Text box	This is for users to edit a phone for their profile.
Address	Text box	This is for users to edit an address for their profile.
Data action		
Save changes	Button	Click to update the User Detail in the checkout page.

Database Access

Table	CRUD	Description
User detail	U	Update user information
Cart item	R	Checkout all cart items.

3.8 PlaceOrderFromCart

UI Design

The screenshot shows the LKHT application interface. At the top, there is a dark header bar with the LKHT logo, navigation links (Home, About, Shop, Hello user), and a search bar. Below the header, the main content area has two sections: 'Billing Address' on the left and 'Your order Details' on the right.

Billing Address Section:

- Radio Button:** A red radio button is selected next to the "Billing Address" label.
- Input Fields:** Fields for First Name (Nguyễn), Last Name (Khánh), Address (8 ngõ gach), and Phone Number (0978262446).
- Buttons:** A red "Save changes" button at the bottom and a red "Place Order" button at the bottom right of the section.

Your order Details Section:

Your order Details		Price
Product	Total	
iPhone 15 Pro	2700.0\$	
Total	2700.0\$	

A blue circle highlights the "Place Order" button in the Billing Address section.

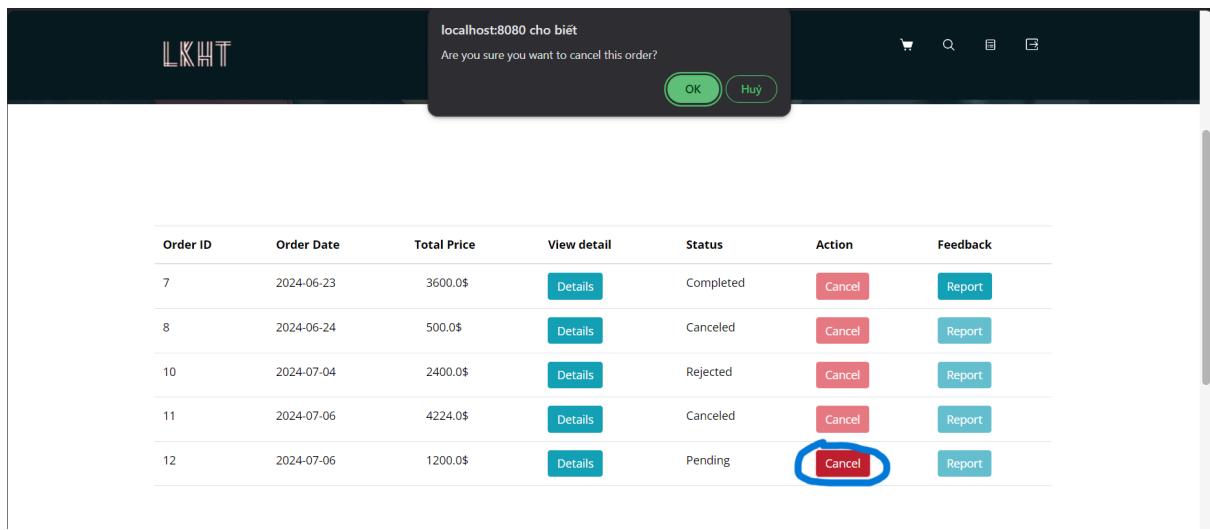
Data action		
Place Order	Button	Can place all cart items to order.

Database Access

Table	CRUD	Description
Order Detail	C	Place all product cart items to order items.

3.9 CancelOrder

UI Design



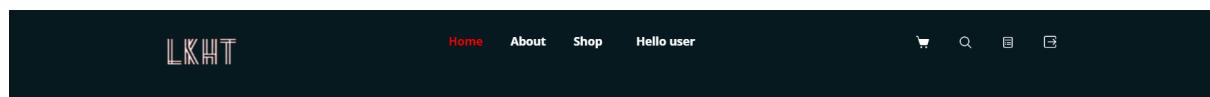
Data action		
CancelOrder	Button	Can cancel any their order if status = Pending

Database Access

Table	CRUD	Description
Order	U	Update status of order = Canceled

3.10 ViewOrderHistory

UI Design



Order Date	Total Price	View detail	Status	Action	Feedback
2024-06-23	3600.0\$	<button>Details</button>	Completed	<button>Cancel</button>	<button>Report</button>
2024-06-24	500.0\$	<button>Details</button>	Canceled	<button>Cancel</button>	<button>Report</button>
2024-07-04	2400.0\$	<button>Details</button>	Rejected	<button>Cancel</button>	<button>Report</button>
2024-07-06	4224.0\$	<button>Details</button>	Canceled	<button>Cancel</button>	<button>Report</button>
2024-07-06	1200.0\$	<button>Details</button>	Pending	<button>Cancel</button>	<button>Report</button>

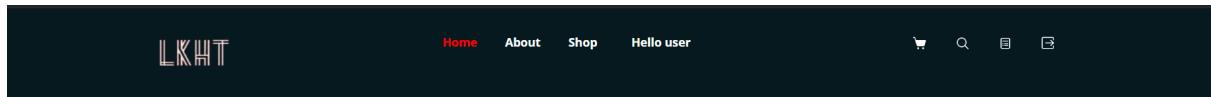
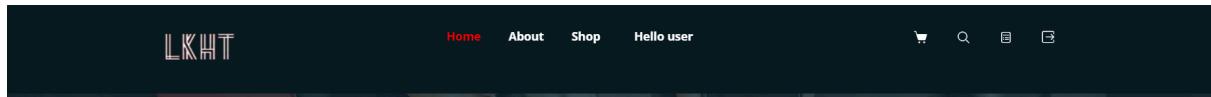
Field Name	Field Type	Description
Order Date	Text box	This is for users to view date when they order.
Total Price	Text box	This is for users to view Total price of their order.
Status	Text box	This is for users to status their order.
Data action		
View Detail	Button	This is for users to view details of each order they choose.
Action	Button	This is for user to cancel their order if it have status = Pending
Feedback	Button	This is for user to feedback their order if it have status = Completed

Database Access

Table	CRUD	Description
Order	R	View all order history that they have ordered.

3.11 ViewOrderDetails

UI Design



Product Image	Product Name	Price	Quantity	Total	Total	Price
	Z Flip5	1500.0\$	2	1000.0\$	Total:	3600.0\$
	S24 Ultra	1200.0\$	2	600.0\$		
	S23 Ultra	1000.0\$	2	2000.0\$		

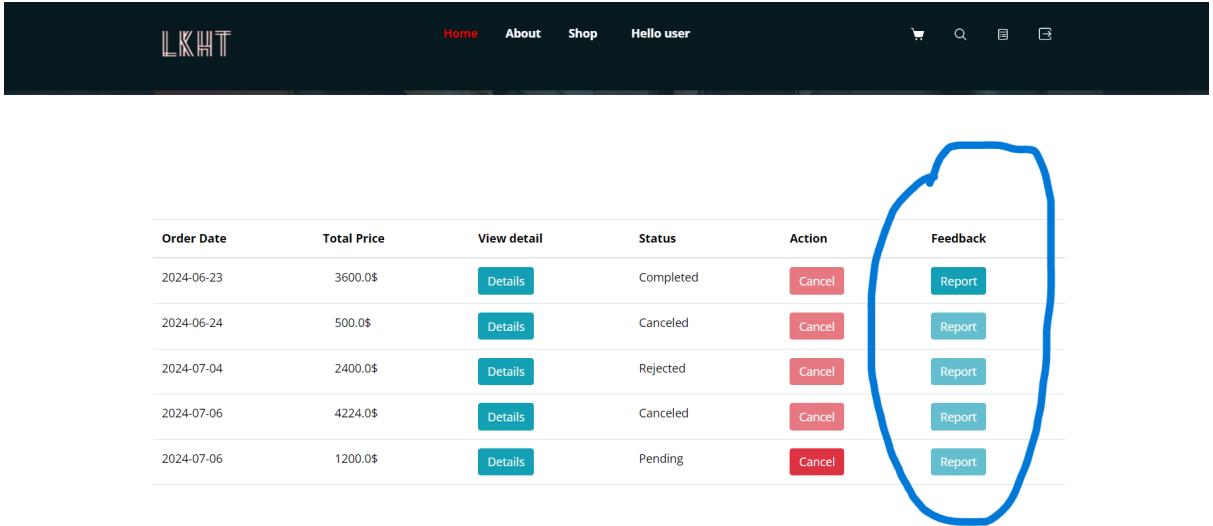
Field Name	Field Type	Description
Product Image	Text box	This is for users to view images of each product in their order.
Product Name	Text box	This is for users to view names of each product in their order.
Price	Text box	This is for users to view prices of each product in their order.

Quantity	Text box	This is for users to view the quantity of each product in their order.
Total	Text box	This is for users to view totals of each product in their order.
Total of all product	Text box	This is for users to view totals of all product in their order.
Data action		
View Detail	Button	This is for users to view details of each order they choose.

Database Access

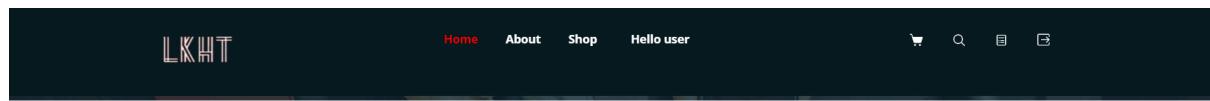
Table	CRUD	Description
Order item	R	View all order items that they have ordered in each order.

3.12 ViewReportDetails



The screenshot shows a dark-themed web application interface. At the top, there is a navigation bar with the logo 'LKHT', 'Home', 'About', 'Shop', 'Hello user', and icons for search, cart, and profile. Below the navigation bar is a table titled 'ViewReportDetails'. The table has columns: Order Date, Total Price, View detail, Status, Action, and Feedback. The 'Feedback' column is circled in blue. The table data is as follows:

Order Date	Total Price	View detail	Status	Action	Feedback
2024-06-23	3600.0\$	Details	Completed	Cancel	Report
2024-06-24	500.0\$	Details	Canceled	Cancel	Report
2024-07-04	2400.0\$	Details	Rejected	Cancel	Report
2024-07-06	4224.0\$	Details	Canceled	Cancel	Report
2024-07-06	1200.0\$	Details	Pending	Cancel	Report



Report an Issue

Please fill out the form below to report any issues with your order.

Describe the issue

Submit Report

Order Information

Product Image	Product Name	Price	Quantity	Total
	Z Flip5	1500.0\$	2	1000.0\$
	S24 Ultra	1200.0\$	2	600.0\$
	S23 Ultra	1000.0\$	2	2000.0\$

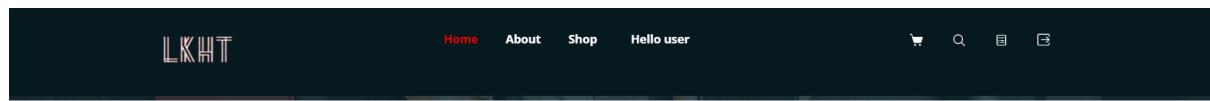
UI Design

Field Name	Field Type	Description
Product Image	Text box	This is for users to view images of each product in their order.
Product Name	Text box	This is for users to view names of each product in their order.
Price	Text box	This is for users to view prices of each product in their order.
Quantity	Text box	This is for users to view the quantity of each product in their order.
Total	Text box	This is for users to view totals of each product in their order.
Total of all product	Text box	This is for users to view totals of all product in their order.
Data action		
Submit report	Button	This is for users to submit this report in their order.

Database Access

Table	CRUD	Description
Order item	R	View form report and order item of this order that have this report.

3.13 SubmitReport



Report an Issue

Please fill out the form below to report any issues with your order.

Describe the issue

Submit Report

Order Information

Product Image	Product Name	Price	Quantity	Total
	Z Flip5	1500.0\$	2	1000.0\$
	S24 Ultra	1200.0\$	2	600.0\$
	S23 Ultra	1000.0\$	2	2000.0\$

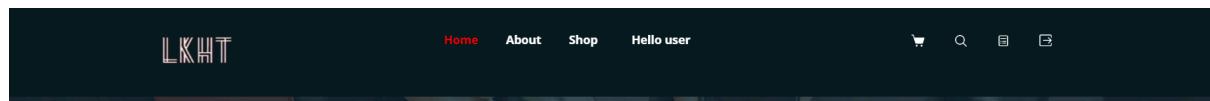
UI Design

Field Name	Field Type	Description
Data action		
Submit report	Button	This is for users to submit this report in their order.

Database Access

Table	CRUD	Description
Report	C	Create a new report of each order.

3.14 DeleteReport



Report an Issue

Please fill out the form below to report any issues with your order.

good

[Delete Report](#)

Order Information

Product Image	Product Name	Price	Quantity	Total
	Z Flip5	1500.0\$	2	1000.0\$
	S24 Ultra	1200.0\$	2	600.0\$
	S23 Ultra	1000.0\$	2	2000.0\$

UI Design

Field Name	Field Type	Description
<i>Data action</i>		
Delete report	Button	This is for users to delete this report in their order.

Database Access

Table	CRUD	Description
Report	D	Delete a report of each order.

3.15 ChangePassword

PROFILE USER

The screenshot shows a user interface for changing a password. At the top left is a 'General' tab. Below it is a blue button labeled 'Change password'. To the right of the button are two input fields: one for 'New password' and one for 'Repeat new password', both containing the placeholder text 'New password'. At the bottom of the form are two buttons: 'Save changes' and 'Back to home'.

Field Name	Field Type	Description
Password	Text	This is for users to fill their username.
Password confirm	Text	This is for users to fill their confirm password.
Data action		
Change Password	Button	Click to change password.
Back to home	Button	Back to homepage

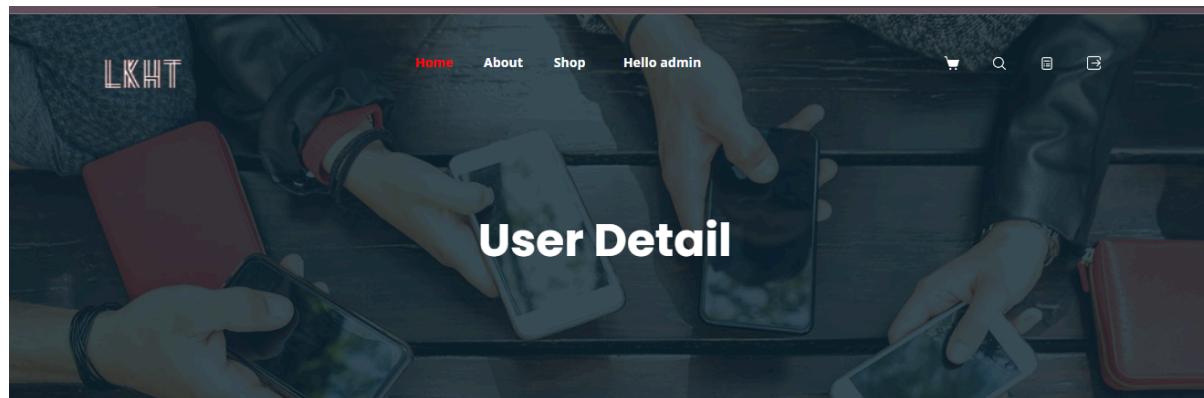
Database Access

Table	CRUD	Description
User	U	Update password after reset request

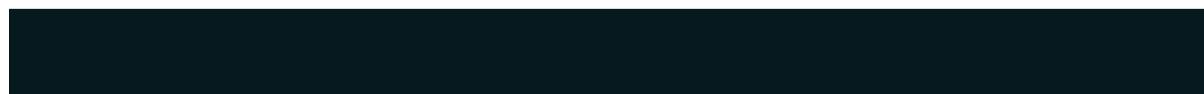
4. Admin Features

4.1 ViewUserDetail

UI Design



User ID	User Name	First Name	Last Name	Email	Address	Gender	Phone Number
1	admin	1	1	long@aaa	1		0971155477



Field Name	Field Type	Description
User ID	Text	This is for the admin to view account id.
User Name	Text	This is for the admin to view the user name.
First Name	Text	This is for the admin to view the user's first name.
Last Name	Text	This is for the admin to view the user's last name.
Email	Text	This is for the admin to view the user email.
Address	Text	This is for the admin to view the user address..
Gender	Text	This is for the admin to view the user gender.
Page	Text	This is for the admin to view the user phone number.

Database Access

Table	CRUD	Description
user	R	View account.
userdtl	R	View information of user

4.2 ViewUserList

UI Design

The screenshot shows a dark-themed dashboard titled "ADMIN DASHBOARD" at the top center. Below it is a large title "Admin manager". A search bar with placeholder "Search" and a magnifying glass icon is positioned above a table. The table has columns: "User ID", "User Name", "User Role", "View detail", and "Status". It contains five rows of data:

User ID	User Name	User Role	View detail	Status
1	admin	ADMIN	Details	ACTIVE
2	long1	ADMIN	Details	ACTIVE
3	long2	MANAGER	Details	ACTIVE
4	long3	MANAGER	Details	ACTIVE
5	long4	USER	Details	ACTIVE

At the bottom left, there are navigation buttons: "Previous", a yellow-highlighted "1" (current page), and "Next".

Field Name	Field Type	Description
User ID	Text	This is for the admin to view account id.
User Name	Text	This is for the admin to view the user name.
User role	Select box	This is for the admin to view and edit the role for the account.
Search text	Input box	This is for the admin to input search text.
<i>Data action</i>		
View detail	Button	This is for the admin to view detailed information about the account.
Status	Button	This is for the admin to update the status of the account.
Previous	Button	This used to go to the previous page.
Page	Button	This is used to go to the select page.
Next	Button	This used to go to the next page.

Database Access

Table	CRUD	Description
User	R	View all user account.
User	U	Update role and status of account

4.3 ChangeRoleAccount

UI Design

User Management				
User ID	User Name	User Role	View detail	Status
1	admin	ADMIN	Details	ACTIVE
2	hien12	ADMIN	Details	ACTIVE
3	manager	ADMIN	Details	ACTIVE
4	longdt211	ADMIN	Details	ACTIVE
5	admin1	ADMIN	Details	ACTIVE

Search Add new account

Previous 1 2 3 Next

Field Name	Field Type	Description
User ID	Text	This is for the admin to view account id.
User Name	Text	This is for the admin to view the user name.
User role	Select box	This is for the admin to view and edit the role for the account.
Search text	Input box	This is for the admin to input search text.
<i>Data action</i>		
View detail	Button	This is for the admin to view detailed information about the account.
Status	Button	This is for the admin to update the status of the account.
Previous	Button	This used to go to the previous page.
Page	Button	This is used to go to the select page.
Next	Button	This used to go to the next page.

Database Access

Table	CRUD	Description
User	R	View all user account.
User	U	Update role and status of account

4.4 ChangeStatusAccount

UI Design

User Management				
User ID	User Name	User Role	View detail	Status
1	admin	ADMIN	Details	ACTIVE
2	hien12	ADMIN	Details	INACTIVE
3	manager	ADMIN	Details	ACTIVE
4	longdt211	ADMIN	Details	ACTIVE
5	admin1	ADMIN	Details	ACTIVE

Search Add new account

Previous 1 2 3 Next

Field Name	Field Type	Description
User ID	Text	This is for the admin to view account id.
User Name	Text	This is for the admin to view the user name.
User role	Select box	This is for the admin to view and edit the role for the account.
Search text	Input box	This is for the admin to input search text.
Data action		
View detail	Button	This is for the admin to view detailed information about the account.
Status	Button	This is for the admin to update the status of the account.
Previous	Button	This used to go to the previous page.
Page	Button	This is used to go to the select page.
Next	Button	This used to go to the next page.

Database Access

Table	CRUD	Description
User	R	View all user account.
User	U	Update role and status of account

4.5 Search UI Design

User ID	User Name	User Role	View detail	Status
1	admin	ADMIN ▾	Details	ACTIVE
2	hien12	ADMIN ▾	Details	INACTIVE
3	manager	ADMIN ▾	Details	ACTIVE
4	longdt211	ADMIN ▾	Details	ACTIVE
5	admin1	ADMIN ▾	Details	ACTIVE

Previous 1 2 3 Next

Field Name	Field Type	Description
User ID	Text	This is for the admin to view account id.
User Name	Text	This is for the admin to view the user name.
User role	Select box	This is for the admin to view and edit the role for the account.
Search text	Input box	This is for the admin to input search text.
<i>Data action</i>		
View detail	Button	This is for the admin to view detailed information about the account.
Status	Button	This is for the admin to update the status of the account.
Previous	Button	This used to go to the previous page.
Page	Button	This is used to go to the select page.
Next	Button	This used to go to the next page.

Database Access

Table	CRUD	Description
User	R	View all user accounts.
User	U	Update role and status of account

4.6 CreateAccount

UI Design

The screenshot shows a form titled "Add account". It contains fields for "User Name", "Email", "Password", and "Confirm password", each with a placeholder text below it. A "Role" dropdown menu is set to "ADMIN". At the bottom are two buttons: "Create" and "Back to home".

Field Name	Field Type	Description
User Name	Text	This is for the admin to fill in the user name.
Email	Text	This is for the admin to fill email.
Password	Text	This is for the admin to input a password.
Confirm Password	Text	This is for the admin to input a confirm password.
Role	Select	This is for the admin to select role
Data action		
Create	Button	Create account
Back to home	Button	Back to homepage

Database Access

Table	CRUD	Description
User	U	Update role and status of account

5. Manager Features

5.1 ViewProduct

UI Design

The screenshot displays a dark-themed user interface for managing products. On the left, a main panel lists five products with the following details:

PRODUCT ID	PRODUCT NAME	Price	Action	Status
1	S23 Ultra	1000.0 \$	Edit	✓
2	Z Flip5	500.0 \$	Edit	✓
3	S22 Ultra	300.0 \$	Edit	✓
4	iPhone 15 Pro Max	600.0 \$	Edit	✓
25	iPhone 15 Pro	600.0 \$	Edit	✓

A navigation bar at the bottom includes links for 1, 2, 3, 4, and Next.

To the right, a sidebar titled "Brand" lists four entries:

Brand	Action
iphone	Edit
SamSung	Edit
xiaomi	Edit
hehe	Edit

Below the sidebar are two buttons: "ADD NEW BRAND" and "ADD NEW PRODUCT".

Field Name	Field Type	Description
Product ID	Text	This is for manager to view their id of the product.
Name	Text	This is for manager to view the name of the product.
Price	Text	This is for manager to view the price of the product.
Edit	Button	This is for manager to edit product.
Add	Button	This is for manager to add new product.
Status	Button	This is for manager to update the status product.

Data action		
Edit	Button	Click if you want to edit the product.
Add	Button	Click if you want to add new product.
Status	Button	Click if you want to update status the product

Database Access

Table	CRUD	Description
Phone	R	View all phone.

5.2 AddNewProduct

UI Design

Brand	Picture Main
iphone	
Picture Font	Picture Back
Picture Side	Camera
Status	
In stock	
ADD NOW	

Field Name	Field Type	Description
Name	Text	This is for the manager to fill in the name of the product..
CPU	Text	This is for the manager to fill in the cpu of the product.
Memory	Selector	This is for the manager to fill in the memory of the product.
Status	Selector	This is for the manager to fill in the status of the product.
Date	Date	This is for the manager to fill in the date of the product.
Sim	Selector	This is for the manager to fill in the sim of the product.
Price	Number	This is for the manager to fill in the price of the product.
Ram	Selector	This is for the manager to fill in the ram of the product.
Display	Number	This is for the manager to fill in the display of the product.
Origin	Text	This is for the manager to fill in the origin of the product.
Brand	Selector	This is for the manager to fill in the brand of the product.
Picture Main	Text	This is for the manager to fill in the main picture of the product.
Picture Front	Text	This is for the manager to fill in the picture in front of the product.
Picture Back	Text	This is for the manager to fill in the back picture of the product.
Picture Side	Text	This is for the manager to fill in the side picture of the product.
Picture Camera	Text	This is for the manager to fill in the camera of the product.
Data action		
Add now	Button	Click if you want to add a new product.

Database Access

Table	CRUD	Description
Phone	C	Create a new phone.

5.3 EditProduct

UI Design

Edit Product

Phone ID
1

Product Name
S23 Ultra

CPU
nguuuuuuuuuu

Camera
190.0

Memory
128.0

Date Sim
14/06/2024 2 Sim

Date	Sim
14/06/2024	2 Sim
Price	Ram
1000.0	8GB
Display	Origin
120.0	VietNam
Brand	Picture ID
SaM Sung	1
Picture Main	Picture Font
https://cdn2.cellphones.com.vn/insecure/rs:fill	https://cdn2.cellphones.com.vn/insecure/rs:fill
Picture Back	Picture Side
https://cdn2.cellphones.com.vn/insecure/rs:fill	https://cdn2.cellphones.com.vn/insecure/rs:fill
Status	
In-stock	

[UPDATE NOW](#)

Field Name	Field Type	Description
Name	Text	This is for the manager to edit the name of the product..
CPU	Text	This is for the manager to edit in the cpu of the product.
Memory	Selector	This is for the manager to edit in the memory of the product.
Status	Selector	This is for the manager to edit the status of the product.
Date	Date	This is for the manager to edit the date of the product.
Sim	Selector	This is for the manager to edit in the sim of the product.
Price	Number	This is for the manager to edit the price of the product.
Ram	Selector	This is for the manager to edit in the ram of the product.
Display	Number	This is for the manager to edit the display of the product.
Origin	Text	This is for the manager to edit the origin of the product.
Brand	Selector	This is for the manager to edit the brand of the product.
Picture Main	Text	This is for the manager to edit the main picture of the product.

Picture Front	Text	This is for the manager to edit the picture in front of the product.
Picture Back	Text	This is for the manager to edit the back picture of the product.
Picture Side	Text	This is for the manager to edit the side picture of the product.
Picture Camera	Text	This is for the manager to edit in the camera of the product.
Data action		
Update now	Button	Click if you want to edit the product.

Database Access

Table	CRUD	Description
Phone	U	Update phone.

5.4 InactiveOrActiveProduct

UI Design

PRODUCT ID	PRODUCT NAME	Price	Action	Status
1	S23 Ultra	1000.0 \$	Edit	

PRODUCT ID	PRODUCT NAME	Price	Action	Status
1	S23 Ultra	1000.0 \$	Edit	

Field Name	Field Type	Description
Status	Button	This is for the manager to be inactive or active on the product.
Data action		
Update now	Button	Click if you want to deactivate or activate the product.

Database Access

Table	CRUD	Description

Phone	U	Update phone.
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5.5 AddNewBrand

UI Design

Add Brand

Brand Name

ADD NOW

Field Name	Field Type	Description
Name	Text	This is for manager to fill in the name of the brand..
Data action		
Add now	Button	Click if you want to add a new brand.

Database Access

Table	CRUD	Description
Brand	C	Create a new brand.

5.6 EditBrand

UI Design

The screenshot displays a user interface titled "Edit Brand". The form contains two input fields: "Brand ID" with the value "2" and "Brand Name" with the value "SamSung". Below the inputs is a large grey button labeled "UPDATE".

Field Name	Field Type	Description
ID	int	This is for manager to view the id of the brand.
Name	Text	This is for manager to edit name of the brand.
Data action		
Update	Button	Click if you want to update brand.

Database Access

Table	CRUD	Description
Brand	U	Update brand.

5.7 SearchProductByName

UI Design

The screenshot shows a dark-themed web application interface titled "PRODUCT MANAGER". At the top, there are navigation links for "Orders", "Products", and "Reports", along with a "Logout" button. Below the header is a search bar with a magnifying glass icon and a dropdown menu set to "All". A large table lists products with columns for "PRODUCT ID", "PRODUCT NAME", "Price", "Action", and "Status". The first few rows show products like "S23 Ultra", "Z Flip5", "S22 Ultra", "iPhone 15 Pro Max", and "iPhone 15 Pro". To the right of the main table is a sidebar titled "Brand" containing a list of brands: "iphone", "SamSung", "xiaomi", and "hehe", each with an "Edit" link. At the bottom of the sidebar is a button labeled "ADD NEW BRAND".

Field Name	Field Type	Description
Search	Text	This is for managers to search products by name.
Data action		
Search	Button	Click if you want to search product by name.

Database Access

Table	CRUD	Description
Phone	R	View product by name.

5.8 SearchProductByStatus

UI Design

The screenshot shows the 'PRODUCT MANAGER' interface. At the top, there are navigation links for 'Orders', 'Products', and 'Reports', along with a 'Logout' button. Below the header is a search bar with a magnifying glass icon and a dropdown menu labeled 'All'. A callout bubble highlights this dropdown. To the right of the search bar is a table titled 'Brand' with four entries: 'iphone', 'SamSung', 'xiaomi', and 'hehe', each with an 'Edit' link. Below the table is a button labeled 'ADD NEW BRAND'. The main area contains a table with columns: 'PRODUCT ID', 'PRODUCT NAME', 'Price', 'Action', and 'Status'. The table has five rows with data: 1. S23 Ultra, 1000.0 \$, Edit, green circle; 2. Z Flip5, 500.0 \$, Edit, green circle; 3. S22 Ultra, 300.0 \$, Edit, green circle; 4. iPhone 15 Pro Max, 600.0 \$, Edit, green circle; 5. iPhone 15 Pro, 600.0 \$, Edit, green circle.

This screenshot is similar to the one above, showing the 'PRODUCT MANAGER' interface. The 'Status' column in the main table is highlighted with a callout bubble. The dropdown menu is open, showing three options: 'All', 'In stock', and 'Out stock', with 'All' being the selected option. The rest of the interface, including the Brand table and the product list, remains the same.

Field Name	Field Type	Description
Search	Text	This is for managers to search products by status(in-stock or out-stock).
Data action		
Search	Button	Click if you want to search product by status.

Database Access

Table	CRUD	Description
Phone	R	View product by status.

5.9 ViewOrders

UI Design

Orders List					
Order ID	Order Date	Total Price	View detail	Status	Action
1	2024-04-20	200.0\$	Details	● Approved	Complete
2	2024-03-15	150.0\$	Details	● Pending	Approve Reject

Field Name	Field Type	Description
Order ID	Text	This is for manager to view the id of the order
Order Date	Date	This is for manager to view the date of the order
Total Price	Text	This is for manager to view the price of the order
Status	Text	This is for manager to view the status of the order
View detail	Button	This is for manager to view the detail of an order
Action	Button	This is for manager to update the status of the order.
Data action		
Details	Button	Click if you want to view the details of an order.
Approve	Button	Click if you want to update the status of the order to “Approved”
Reject	Button	Click if you want to update the status of the order to “Rejected”
Complete	Button	Click if you want to update the status of the order to “Completed”

Database Access

Table	CRUD	Description
Order	R	View all order.

5.10 ViewOrderDetails

UI Design

The screenshot shows a dashboard interface for managing orders. At the top, there is a search bar labeled "Search by User Name" and a "Search" button. Below the search bar, the title "Orders List" is displayed. The main content area contains a table with columns: Order ID, Order Date, Total Price, View detail, Status, and Action. There are two rows of data:

- Row 1:** Order ID 1, Order Date 2024-04-20, Total Price 200.0\$, Status Approved, Action Complete. The "View detail" button is highlighted with a blue oval.
- Row 2:** Order ID 2, Order Date 2024-03-15, Total Price 150.0\$, Status Pending, Action Approve/Reject. The "View detail" button is labeled "Details".

Below the table, there are two sections: "User Details" and "Orders Details". The "User Details" section shows a user with First Name "hiennnn", Last Name "Ngao", Email "hienngao@example.com", and Address "Thach That". The "Orders Details" section shows an order with one item: Product Image (iPhone 15 Pro Max), Product Name (iPhone 15 Pro Max), Price (600.0\$), and Quantity (4).

Field Name	Field Type	Description
First Name	Text	This is for manager to view user's first name
Last Name	Text	This is for manager to view user's last name
Email	Text	This is for manager to view user's email
Address	Text	This is for manager to view user's address
Phone number	Text	This is for manager to view user's phone number
Product Image	Image	This is for manager to view the product image
Product Name	Text	This is for manager to view the product name
Price	Text	This is for manager to view the order price
Quantity	Text	This is for manager to view the quantity of a product ordered

Database Access

Table	CRUD	Description
Order Item	R	View an order's details
User	R	View user detail

5.11 ChangeOrderStatus

UI Design

Orders List					
Order ID	Order Date	Total Price	View detail	Status	Action
1	2024-04-20	200.0\$	Details	• Approved	<div style="background-color: green; color: white; padding: 5px; text-align: center;">Complete</div>
2	2024-03-15	150.0\$	Details	• Pending	<div style="background-color: green; color: white; padding: 5px; text-align: center;">Approve</div> <div style="background-color: red; color: white; padding: 5px; text-align: center;">Reject</div>

Field Name	Field Type	Description
<i>Data action</i>		
Approve	Button	Click if you want to update the status of the order to “Approved”
Reject	Button	Click if you want to update the status of the order to “Rejected”
Complete	Button	Click if you want to update the status of the order to “Completed”

Database Access

Table	CRUD	Description
Order	R	View all order.

5.12 SearchOrderByUsername

UI Design

Orders List					
Order ID	Order Date	Total Price	View detail	Status	Action
1	2024-04-20	200.0\$	Details	• Approved	<div style="background-color: green; color: white; padding: 5px; text-align: center;">Complete</div>
2	2024-03-15	150.0\$	Details	• Pending	<div style="background-color: green; color: white; padding: 5px; text-align: center;">Approve</div> <div style="background-color: red; color: white; padding: 5px; text-align: center;">Reject</div>

Field Name	Field Type	Description
Search	Text	This is for managers to search order by username
Data action		
Search	Button	Click if you want to search order by username

5.13 ViewReports

UI Design

The UI design for the ViewReports page features a dark blue header with a search bar labeled "Search by User Name". Below the header are two search input fields: one for "Search by User Name" and another for "Search by Order ID", each with a "Search" button. The main content area is titled "Reports List" and contains a table with four columns: Report ID, User ID, Order ID, and View detail. The table has two rows. The first row contains values 1, 2, 1, and a blue "Details" button. The second row contains values 2, 4, 2, and a blue "Details" button.

Field Name	Field Type	Description
Report ID	Text	This is for manager to view report id
User ID	Text	This is for manager to view user id
Order ID	Text	This is for manager to view order id
View Detail	Button	This is for manager to view report details
Search by Username	Text box	This is for manager to enter username to search
Search by Order ID	Text box	This is for manager to enter order id to search
Data action		
Search(1)	Button	Click if you want to view report by username
Search(2)	Button	Click if you want to view report by order id
Details	Button	Click if you want to view report details

Database Access

Table	CRUD	Description
Report	R	View all report

5.14 ViewReportDetails

UI Design

Welcome back, Manager

Search by User Name Search

dd/mm/yyyy dd/mm/yyyy Filter by Date

Reports List

Username	Email	Order Date	View detail
user2	longner@example.com	15/07/2024	Details

Welcome back, Manager

Description:
dsadadas

Order Items

Product Image	Product Name	Price	Quantity
	iPhone 15 Ultra Ultimate	700.0\$	1

Field Name	Field Type	Description
Description	Text box	This is for manager to view report details

Database Access

Table	CRUD	Description
Report	R	View detail of report

5.15 SearchReportByUsername

UI Design

The screenshot shows a user interface for searching reports. At the top, a dark header bar displays the text "Welcome back, Manager". Below this, a search bar contains the placeholder "Search by User Name". To the right of the search bar are two date input fields labeled "dd/mm/yyyy" with calendar icons, and a "Search" button. A green rectangular callout highlights the "Search" button. Below the search bar is a section titled "Reports List" containing a table. The table has columns for "Username", "Email", "Order Date", and "View detail". A single row is shown, representing a user named "user2" with the email "longnger@example.com" and the order date "15/07/2024". A "Details" button is located in the "View detail" column for this row. A green rectangular callout highlights the "Details" button.

Field Name	Field Type	Description
<i>Data action</i>		
Search	Button	Click if you want to view report by username

5.16 SearchReportByDate

UI Design

Welcome back, Manager

Search by User Name

dd/mm/yyyy dd/mm/yyyy

Reports List

Username	Email	Order Date	Action
user2	longner@example.com	15/07/2024	<input type="button" value="Details"/>

Field Name	Field Type	Description
Data action		
Search	Button	Click if you want to view report by order id

5.17 ViewStatisticsDashboard

UI Design

PRODUCT MANAGER

Logout

Start dd/mm/yyyy End dd/mm/yyyy

Revenue

Total: 15,300.00 \$

Total of order: 4

Top revenue of brand

SamSung : 13,500.00 \$

Iphone : 1,800.00 \$

Field Name	Field Type	Description
Date Start	Date	This is for manager to view report id
Date End	Date	This is for manager to view user id
Data action		
Search	Button	Click if you want to view all statistic by date to date

IV. Appendix

1. Assumptions & Dependencies
2. Limitations & Exclusions
3. Business Rules