



FPT ACADEMY INTERNATIONAL
FPT – APTECH COMPUTER EDUCATION

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HKTT Store

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This is to certify that

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developed

Submitted by:

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REVIEW I

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First and foremost, We wish to express our deep gratitude to our dedicated instructor Mr. Ngo Phuoc Nguyen, who suggestions and encouragement helped us to overcome not only technological challenges but also psychological tension. Without him, our work could not have been completed successfully.

Secondly, we highly appreciate the eProject Team at the Head Office which has provided us a golden opportunity to apply what we learned into practice. We are certain that the experiences we gained from this project will facilitate our future career greatly. Besides, we would also like to express my gratitude to all the staff members of my center for not only providing me with the opportunity to work with them on this project, but also for their support and encouragement throughout the process.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

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PROBLEM DEFINITION

1. Problem Definition

1.1. Introduction

Online shopping is a form of electronic commerce (e-commerce) which allows consumers to directly buy goods or services from a seller over the Internet using a web browser. Consumers find a product of interest by visiting the website of the retailer directly or by searching among alternative vendors using a shopping search engine, which displays the same product's availability and pricing at different e-retailers.

1.2. Existing scenario

With the development of mobile phone, now you can do a lot more in a mobile phone as in a computer and the amount of mobile apps are increasing by days, especially e-commerce apps. With an e-commerce app you can do everything like using a web browser but more simpler. You can access an online shop using a web browser on your phone but it will depend a lot on what type of browser you are using. Maybe the browser can access to the website but it can not display correctly all the information the seller wanted, and because there are lots of web browsers on mobile phone the sellers can not control all.

All of this leads to the growth of mobile e-commerce apps, because with a mobile app the seller will be easier to control what to display, how many functions needed... by themselves and not depend of any type of web browser. And using mobile app will be more convenient for delivery because they can access to GPS easier than a browser.

2. Customer Requirements Specifications:

- **Mobile app** will be a 24/7 sales channel to provide customers information about the product, order online at the app at any time. Specifically, customers can:
 - View detailed information about the product.
 - Search products by name or filter products by categories.
 - Customers have to register to manage their personal information, add product to cart, check orders history.
- **Admin website** will be a 24/7 so the seller can:
 - Manage when they have new order.
 - Store management: add, delete, edit components of the database.
 - Report to manage business activities of the store.

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3. Functional Requirement Specification:

3.1. Guests (unregistered customers):

a. Description:

- Guests can use basic functions of the website such as viewing: best product deals, newest product, product details, shop's information contacts, searching products, making orders and manage carts, signing up to become members.

b. Functional Requirement

- When a customer first open the app, a login screen will show. Here the customer can enter email and pass word to login if they are registered or press Skip to go to Home screen.
- They can press signup to go to sign up screen to register a new account. Members should provide Email, Password, Name, Phone to create an account.
- In home screen will be a navigation drawer, if press the hambeger icon on the top left, you will see the categories and sub categories. If you selected a sub category, you will see all products belong to that sub category.
- At the top of the home screen also has a search bar to filtered product by name.
- The home screen also include a slider with promotion banner for products, list of best deals and newest products.
- The customer can also view product details.
- The unregistered customers can not add product to cart, they need to register first.

3.2. Members (registered customers):

a. Description:

- Members can do all function as guests but they will be able to access more features after login. After login, they can update their information including password change.

b. Functional Requirement

- Members can add product to cart.
- View cart details, they can add more or remove that product from cart or change quantity of product.
- Check out: Members have to provide more information like name, phone, shipping address, note....
- View Order history to check their order status.

3.3. Admin:

a. Description:

- Admins are store's staffs. After login, they will manage information related to products and customers, follow customers' orders, diagnostic shop's business status via number of sales and charts.

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b. Functional Requirement

Via admins' pages, after log in using username and passwords, admins can:

- **Manage information related to products and customers:**

- View, add, update, delete: data in tables such as Category, SubCategory, Unit, Manufacturer, Product, Promotion, Customer.
Note: In table Product, if a product had been order, you can not delete it completely. If you do not want to sale that product, you can change the status IsActive to false.
- Follow customers' orders: Have a page to change the orders' status with values (listed base on real order): processing (default - 1), shipping (2) and completed (3).
Note: When update status, new value should be validated to make sure previous order of current order not be chosen (example: if current status is 'shipping', then 'processing' should not be chosen).
- View report about sales status.

4. Technologies

- JavaEE 7
- JavaServer Faces 2.2
- Enterprise Java Bean (EJB) 3.0
- Bootstrap 3.7
- HTML 5 + CSS 3
- Javascript
- Jquery 2.1
- Jquery UI 1.11.1
- Android Studio
 - + Retrofit
 - + Recycler view
 - + Picasso
 - + Gson
- ASP.NET Core API

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5. Hardware / Software Requirements

5.1. Server, Admin Requirement

❖ Hardware

Component	Requirement
CPU	Processor type: Pentium IV-compatible processor or faster Processor speed: Recommended: 2.0 GHz or faster
OS	Microsoft Windows Server 2012 with IIS
Memory (RAM)	RAM: Minimum: 2 GB Recommended: 4 GB or more
Hard Drive	Free space: Minimum: 10 MB Recommended: 50 GB or more Maximum: Operating system maximum

❖ Software

Component	Requirement
Microsoft .NET Core	Version 3.1 or higher
IIS Manager	Version 10.0 or higher
RDBMS	Microsoft SQL Server 2017
Netbean	Version 11.3 or higher
JavaEE	JavaEE 7 SDK
Java Development Kit	Java Development Kit (JDK) 1.7
Glassfish Server	Glassfish Server 4.0
Web browser	60.0 or higher.

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5.2. Mobile Requirement

❖ Hardware

- Android phone with Android 8.0 Oreo (API 26) or later.
- Atleast 2GB of RAM.
- Internet connection required.

❖ Software

- Allowing app installs from Unknown Sources since we can not publish to Google play.

6. Scope of project

There are some functions not to be included in this project as follows:

- Manage the warehouse: all products will be always available, no import activity.
- Manage the shipping.
- Manage payment methods via credit card.
- Mobile app user can not review product.

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TASK SHEET REVIEW I

Project Ref. No:		Project Title: HKTT Store	Date of Preparation of Activity Plan			
No.	Task	Description	Start Date	Complete Date	Team Member Names	Status
01	Review 1	Problem Definition	22/05/2020	27/05/2020	All Members	Completed
02		Customer Requirements Specifications				Completed
03		Functional Requirement Specification				Completed
04		Technologies				Completed
05		Hardware / Software Requirements				Completed
06		Scope of project				Completed

	Prepare By: Group 1 Team Leader Le Ngoc Dang Khoa	Approved By: Mr. Ngô Phước Nguyễn
Date: 01/06/2020		

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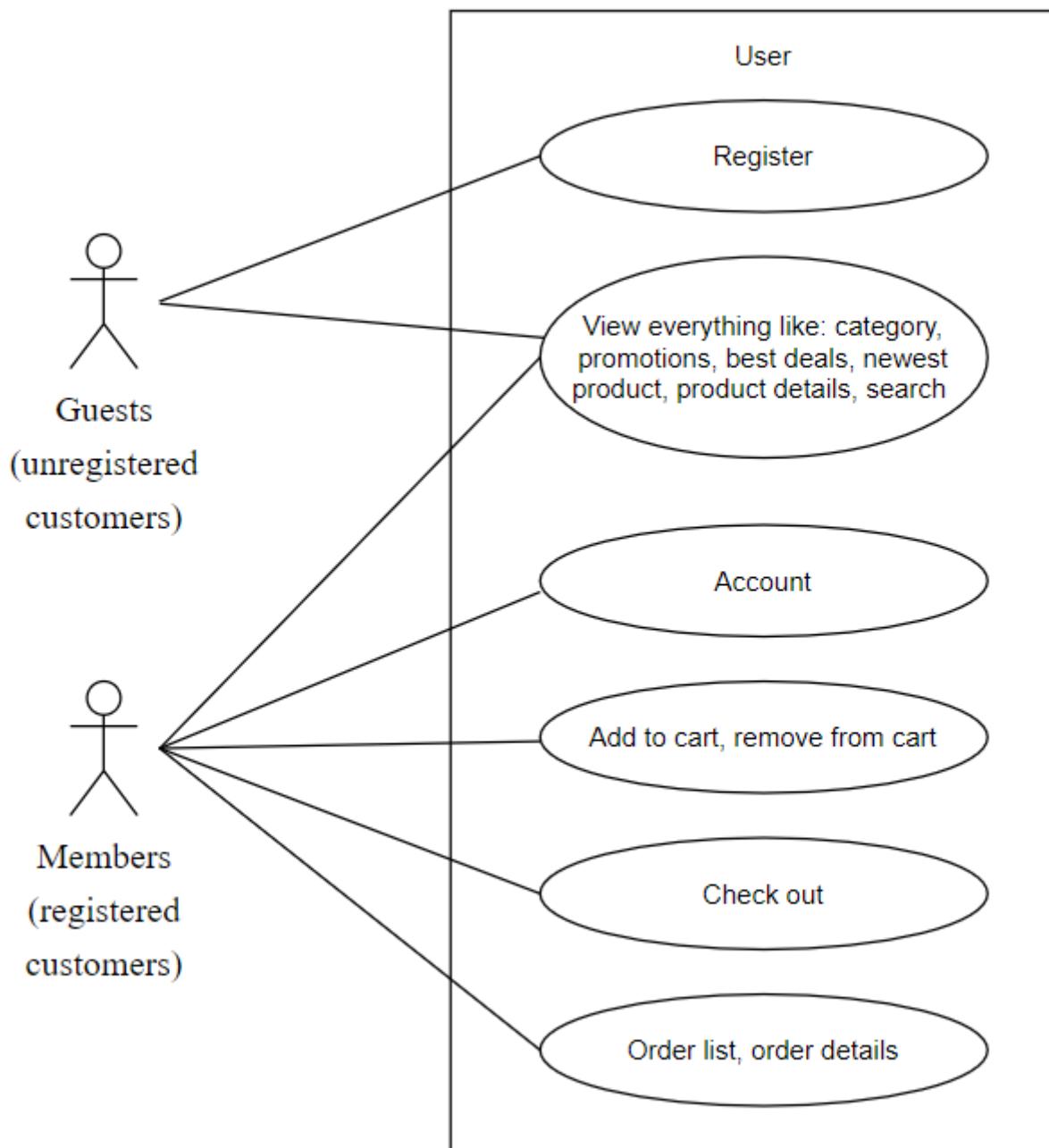
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REVIEW II

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I. USER CASE AND SEQUENCE DIAGRAM



1. Guests (unregistered customers):

1.1 Register

Author	Le Ngoc Dang Khoa
Use Case Name	Register new account
Actors	Guests (unregistered customers)
Description	Actor registers an account on the register screen and becomes a member (customer)

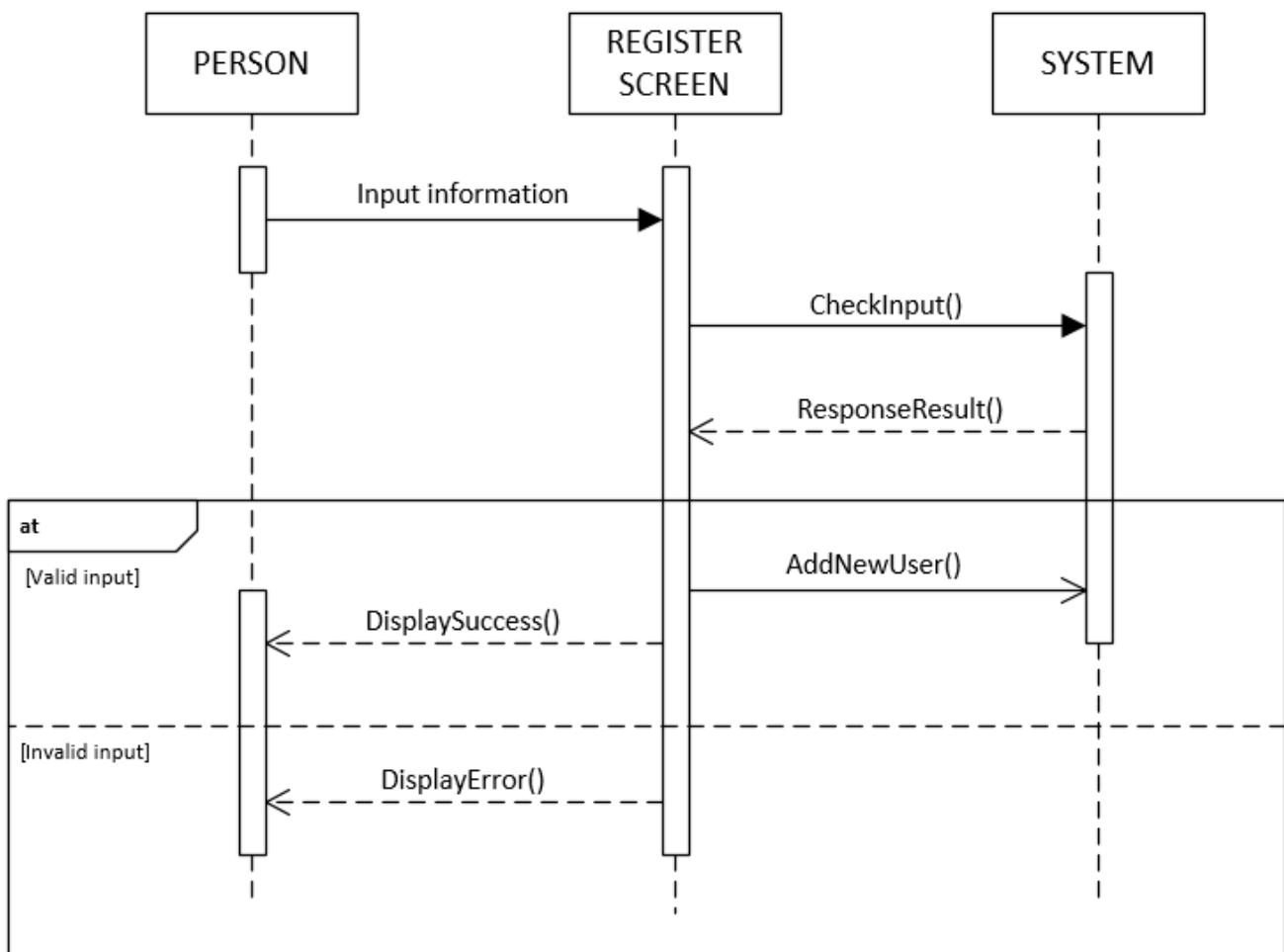
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Requirements	Actor provides their register information	
	Actor Actions	System Responses
Basic flow	1. Input information like: Name, Email, Phone, Address, Password, Confirm password and click on Submit button	2. Check the information [Exception 1] 3. Create customer account 4. Show message to go to login screen.
Exception	[Exception 1] 1. Actor left Name blank 2. Actor left Email blank 3. Actor left Phone blank 4. Actor left Address blank 5. Email is in wrong format. 6. Password length is less than 3. 7. Confirm Password. 8. Email is registered by other customer. 9. Phone is registered by other customer.	Display error message: 1. "Name can not be blank" 2. "Email can not be blank" 3. "Phone can not be blank" 4. "Address can not be blank" 5. "Email is in wrong format" 6. "Password length must be greater than 3" 7. "Confirm Password does not match with Password". 8. "Email is registered by other customer" 9. "Phone is registered by other customer"

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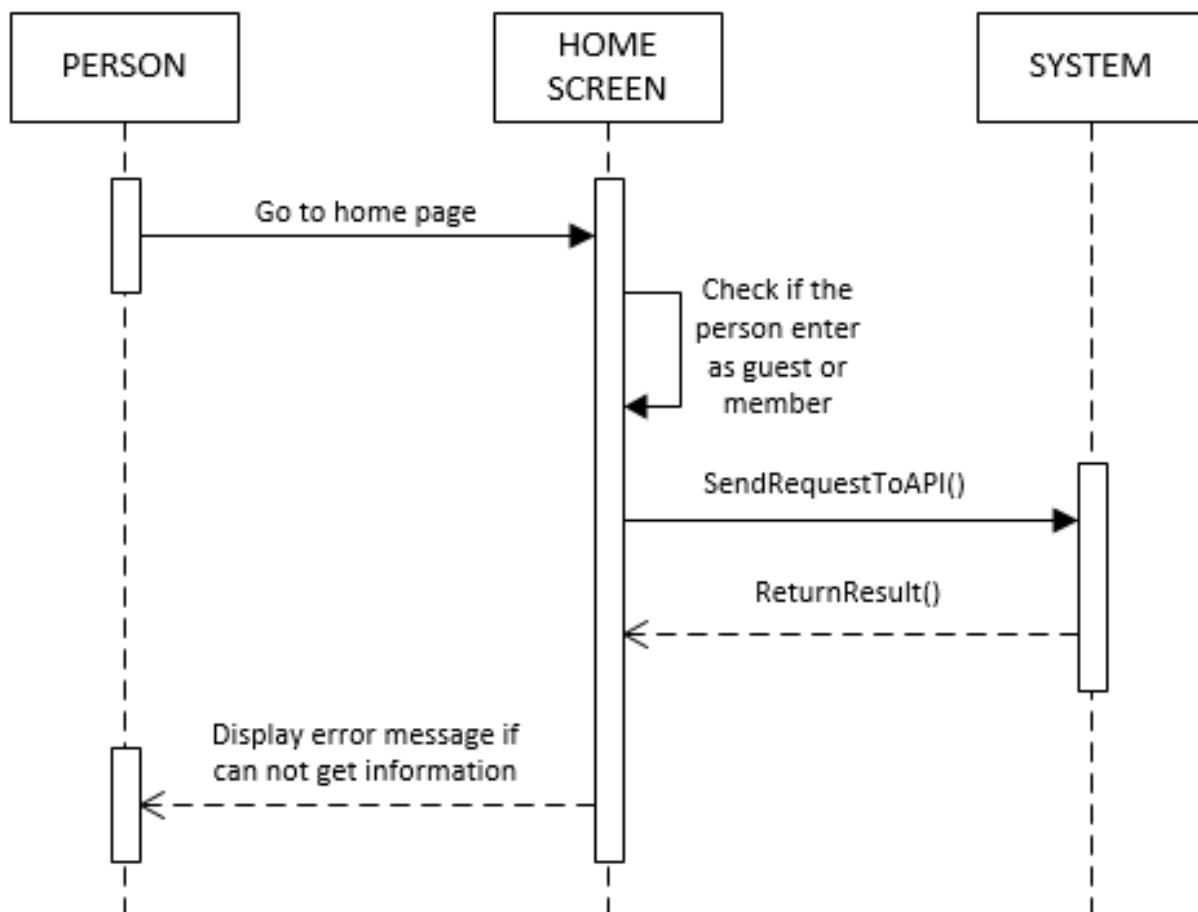
1.2. View category, promotion, best product deals, recently added products

Author	Le Ngoc Dang Khoa	
Use Case Name	View category, promotion, best product deals, recently added products	
Actors	Both guests (unregistered customers) and members (registered customers)	
Description	After the guest press skip button or a member login success, the home screen will show.	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Application will try to connect to API and get information like: categories, promotions, best product deals, recently added products.	2. System will get promotion and display in the slider. Category will be loaded in the navigation drawer. Best deals and recently added products will be loaded in two list. 3. If the actor enter home screen as a guest, no logout button will show and

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		the actor can not see orders or cart list.
Exception		2. If application can not connect to API to fetch information, application shows message: "Can not fetch data. Please check internet connection".



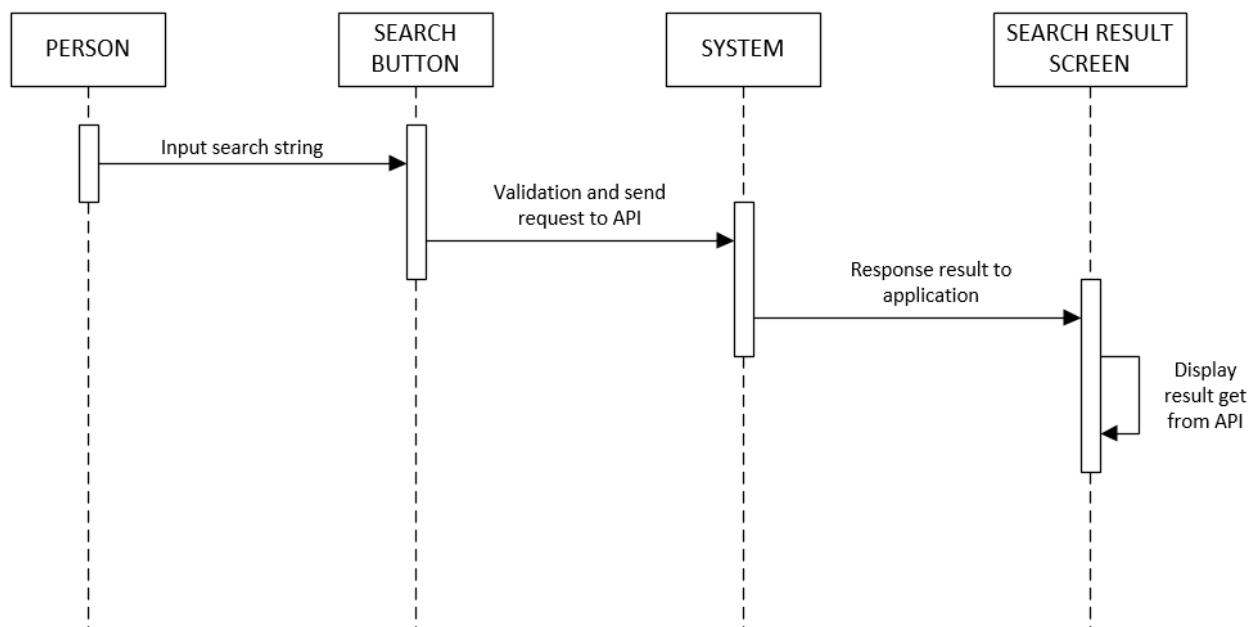
1.3.Search products by name

Author	Le Ngoc Dang Khoa	
Use Case Name	Search products by name	
Actors	Both guests (unregistered customers) and members (registered customers)	
Description	Actor enter search string in search bar and click on search button, search result screen will be displayed with result list of products and their information.	
Requirements	Search string can not be blank.	
	Actor Actions	System Responses

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Basic flow	<p>1. Actor input search string and click on search button.</p> <p>2. System check the search string [Exception 1]</p> <p>3. System create an empty list to contain search result.</p> <p>4. Send request to api, which will search in Product table to find products which have names contain the search string (ignore case) and add them to result list. API will send back to result to application.</p> <p>4. Display the result list in the search result screen.</p>
Exception	<p>1. Actor left the search string empty.</p> <p>4.</p> <p>1. An error message will be display: "Search string can not be empty".</p> <p>4. If application can not connect to API to fetch information, application shows message: "Can not fetch data. Please check internet connection".</p>



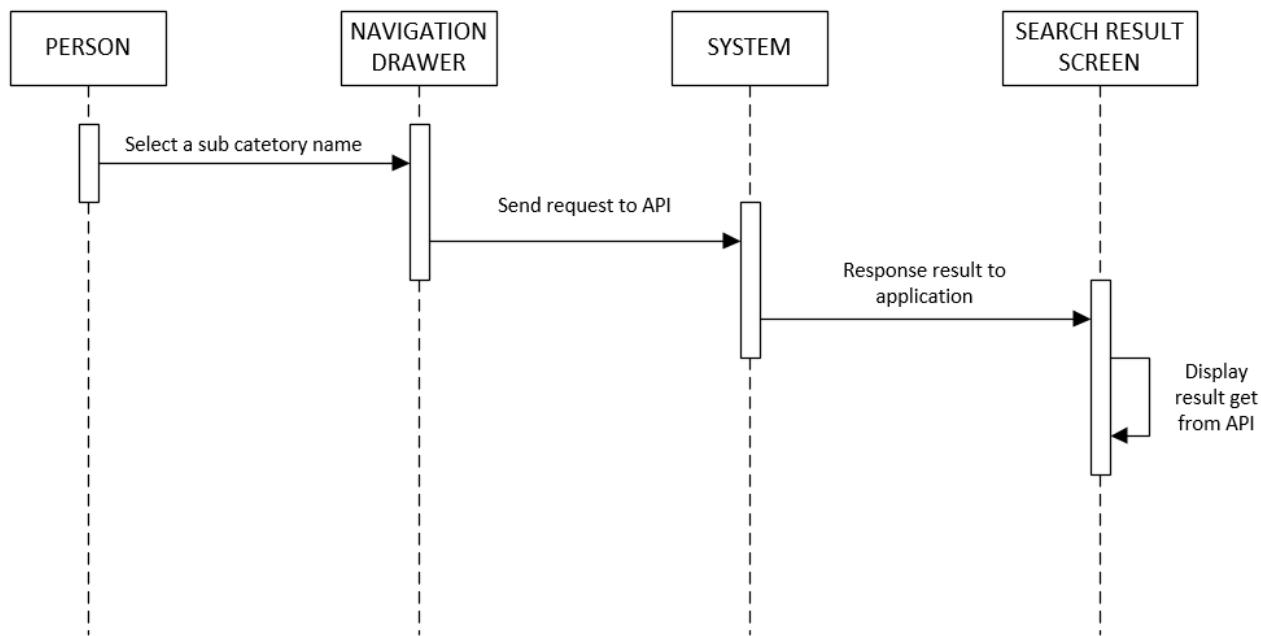
1.4.Get products list by sub category

Author	Le Ngoc Dang Khoa
Use Case Name	Get products list by sub category
Actors	Both guests (unregistered customers) and members (registered customers)
Description	Actor select a sub category name in the navigation drawer, application will display all products of that sub category

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Requirements		
	Actor Actions	System Responses
Basic flow	1. Actor select a sub category name in the navigation drawer.	2. Application will send request to API and system will response with the list of product belong to that sub category in the result screen.
Exception		2. If application can not connect to API to fetch information, application shows message: "Can not fetch data. Please check internet connection".

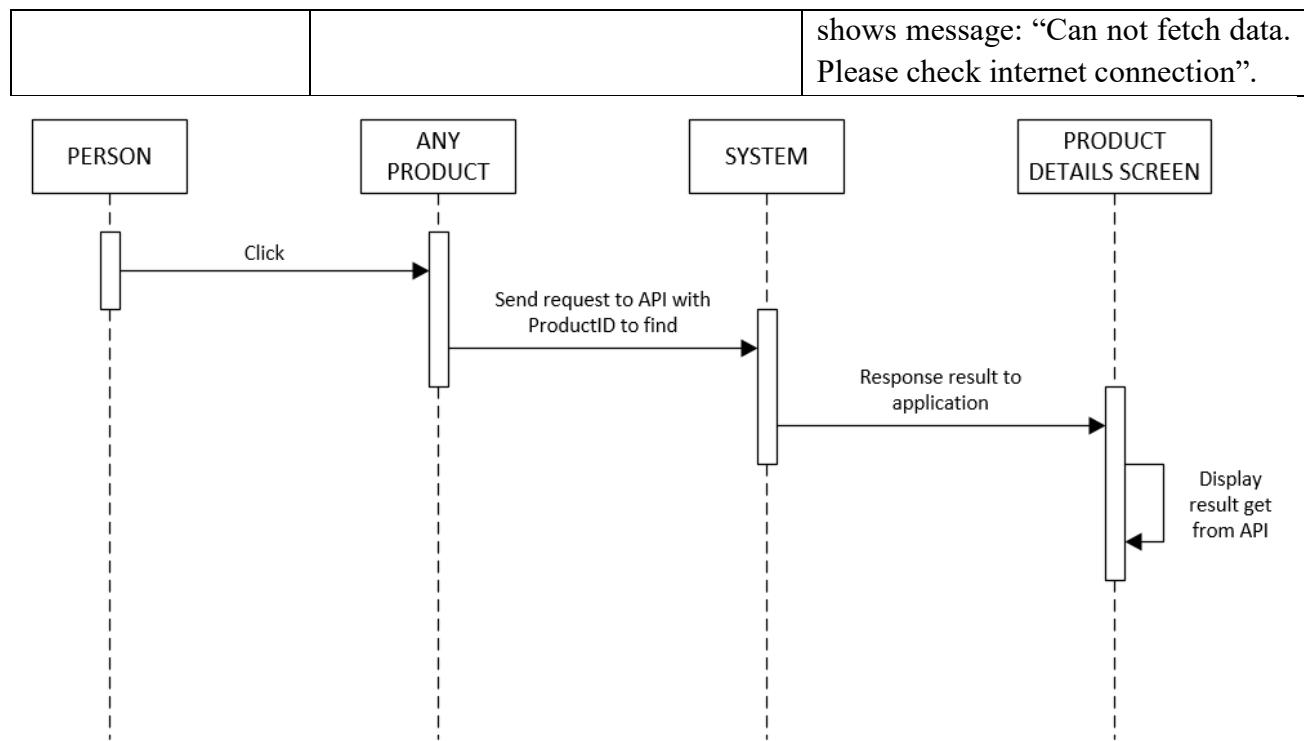


1.5.Get product details

Author	Le Ngoc Dang Khoa	
Use Case Name	Get product details	
Actors	Both guests (unregistered customers) and members (registered customers)	
Description	When the actor click on a product, application will send request to API with selected product ID and response with that product details	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Actor select any product and click on that product image or name.	2. Application will send request to API with the product Id and system will response with the details of that product (if found) in the deatils screen.
Exception		2. If application can not connect to API to fetch information, application

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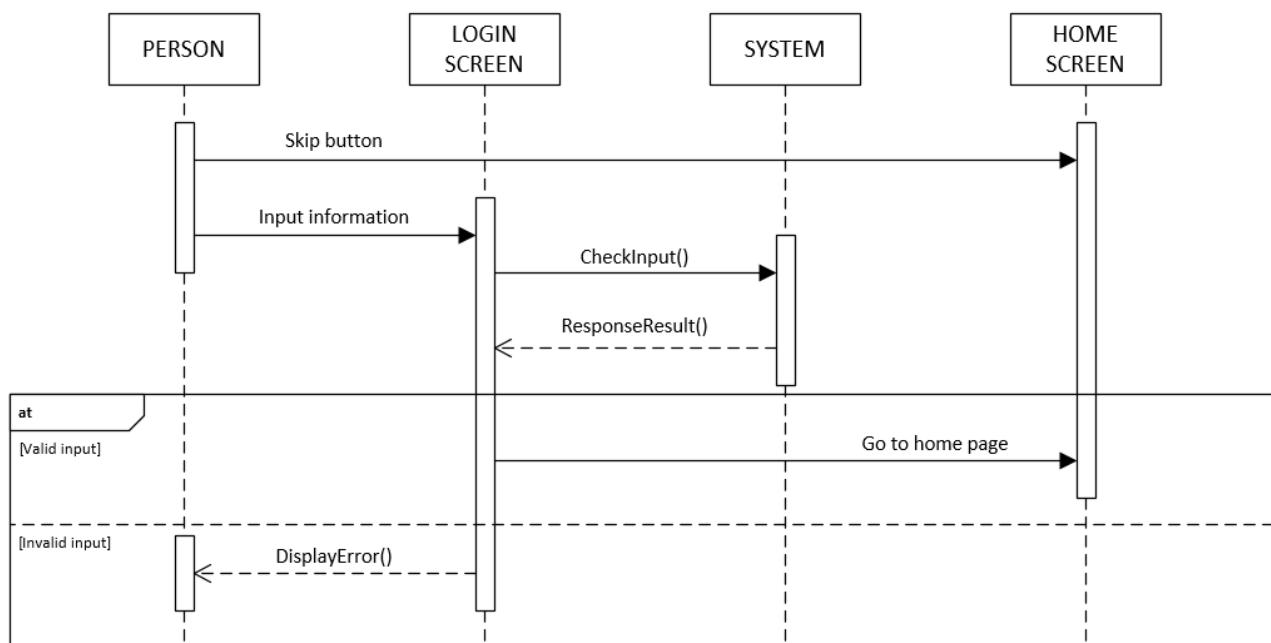
2. Members (registered customers)

2.1.1. Login

Author	Le Ngoc Dang Khoa	
Use Case Name	Login	
Actors	Members (registered customers)	
Description	Customer who has registered an account can login	
Requirements	Actor provides email and password	
	Actor Actions	System Responses
Basic flow	<u>Case 1:</u> 1. Actor press skip button. <u>Case 2:</u> 1. Actor inputs Email and Password, then click the 'Login' button.	<u>Case 1:</u> 2. Show home screen. <u>Case 2:</u> 2. System checks the information. 3. System start home screen.
Exception	<u>Case 2:</u> 1. Actor inputs invalid email and password. 2. Actor account is deactivated cause the actor had try to login with wrong password more than 3 times.	<u>Case 2:</u> 1. System shows message: "Invalid email or password". 2. System shows message: "Account is deactivated. Please contact us for more information".

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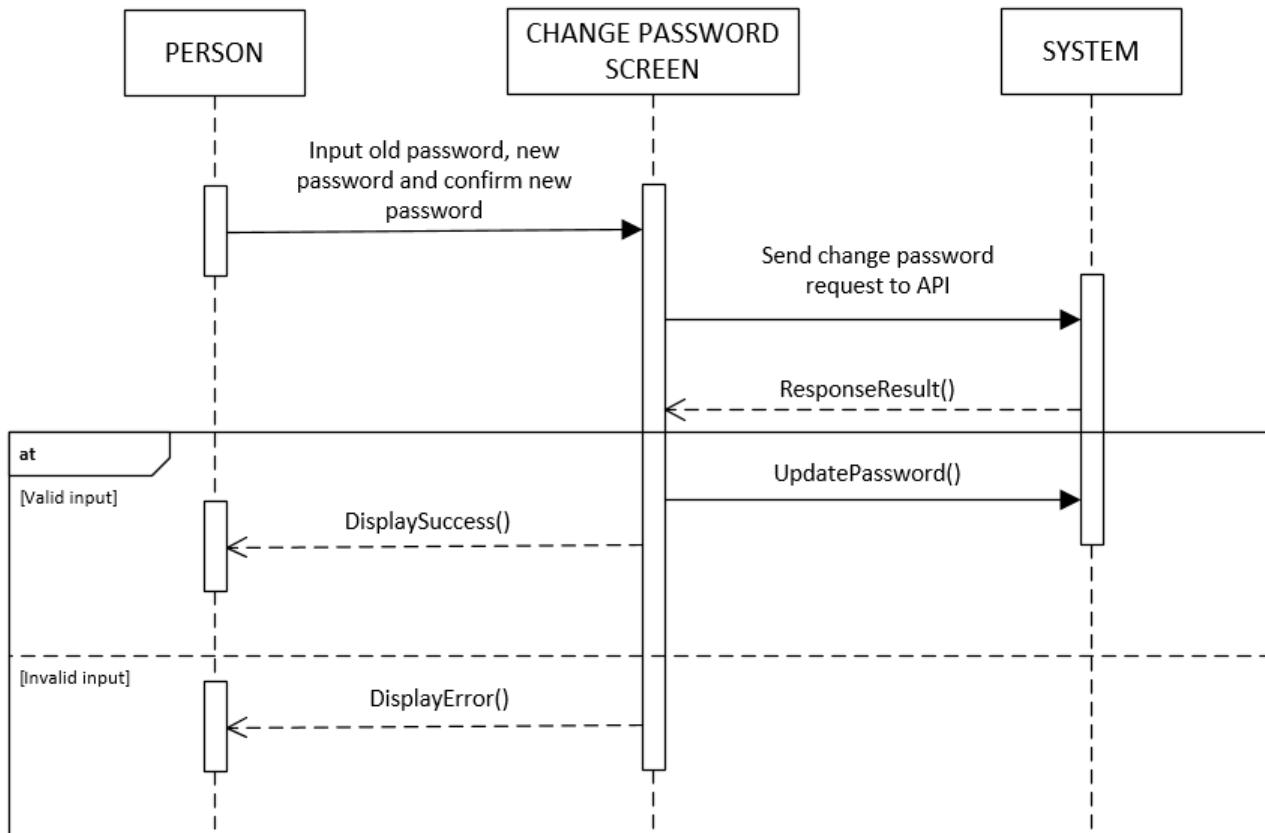


2.2.Change password

Author	Le Ngoc Dang Khoa	
Use Case Name	Change password	
Actors	Members (registered customers)	
Description	Customer want to change the registered password	
Requirements	Login as members	
	Actor Actions	System Responses
Basic flow	1. Input Old Password, New Password and Confirm Password	2. Check information [Exception 1] 3. Update New Password into Customers table
Exception	[Exception 1] 1. Old Password is wrong. 2. New Password length is less than 3 3. Confirm Password does not match with New Password	Display error message: - “Old Password is wrong” - “New Password length is less than 3” - “Confirm Password does not match with New Password”

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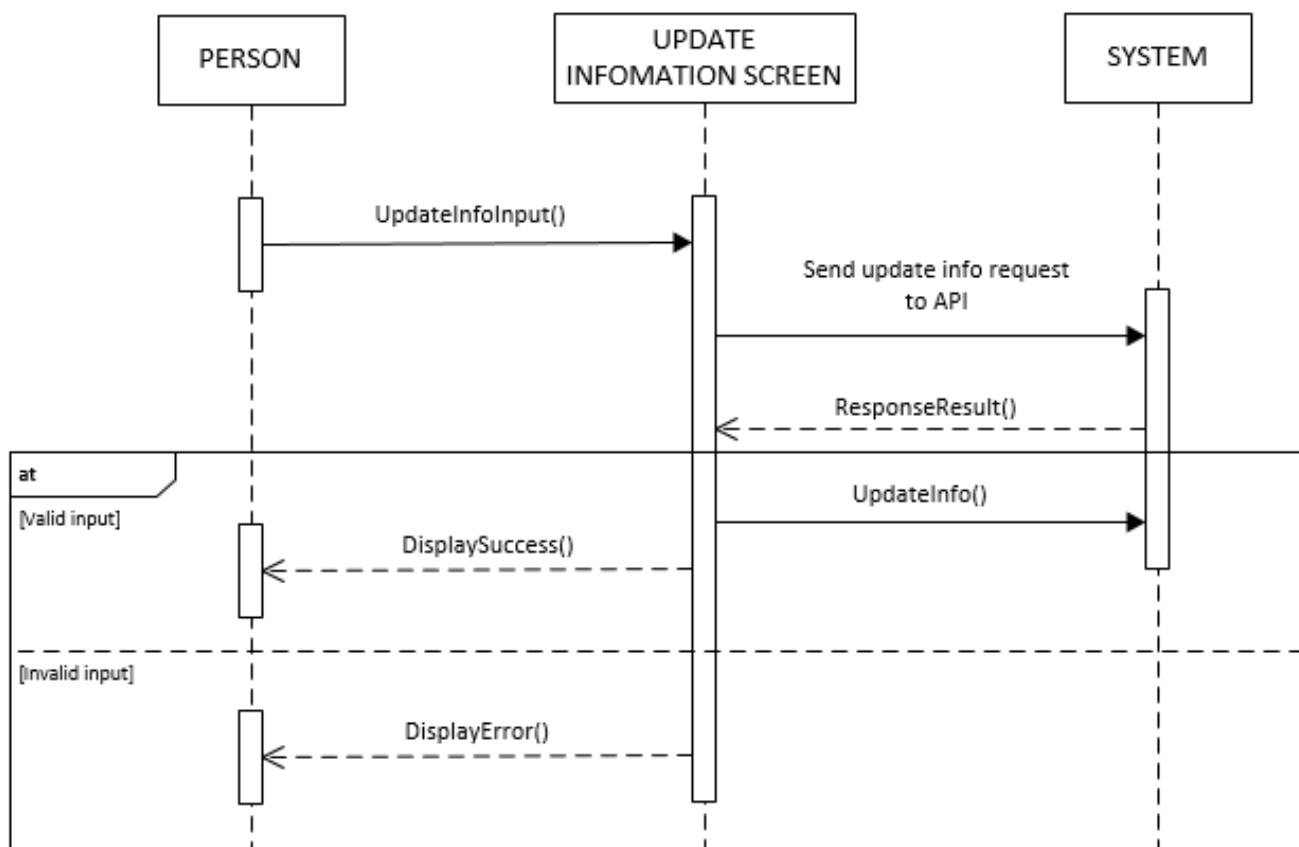
2.3.Update information

Author	Le Ngoc Dang Khoa	
Use Case Name	Update information	
Actors	Members (registered customers)	
Description	Customers want to change their private information	
Requirements	Actor provides email and password	
	Actor Actions	System Responses
Basic flow	1. Actors change Name, Email, Phone, Address.	2. System check information [Exception 1] 3. Update new information to data in Customers table.
Exception	[Exception 1] 1. Actor left Name blank 2. Actor left Email blank 3. Actor left Phone blank 4. Actor left Address blank 5. Email is not correct format 6. Email is registered by other customer.	Display error message: 1. "Name can not be blank" 2. "Email can not be blank" 3. "Phone can not be blank" 4. "Address can not be blank" 5. "Email is not correct format" 6. "Email is registered by other customer."

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	7. Phone is registered by other customer.	7. "Phone is registered by other customer."
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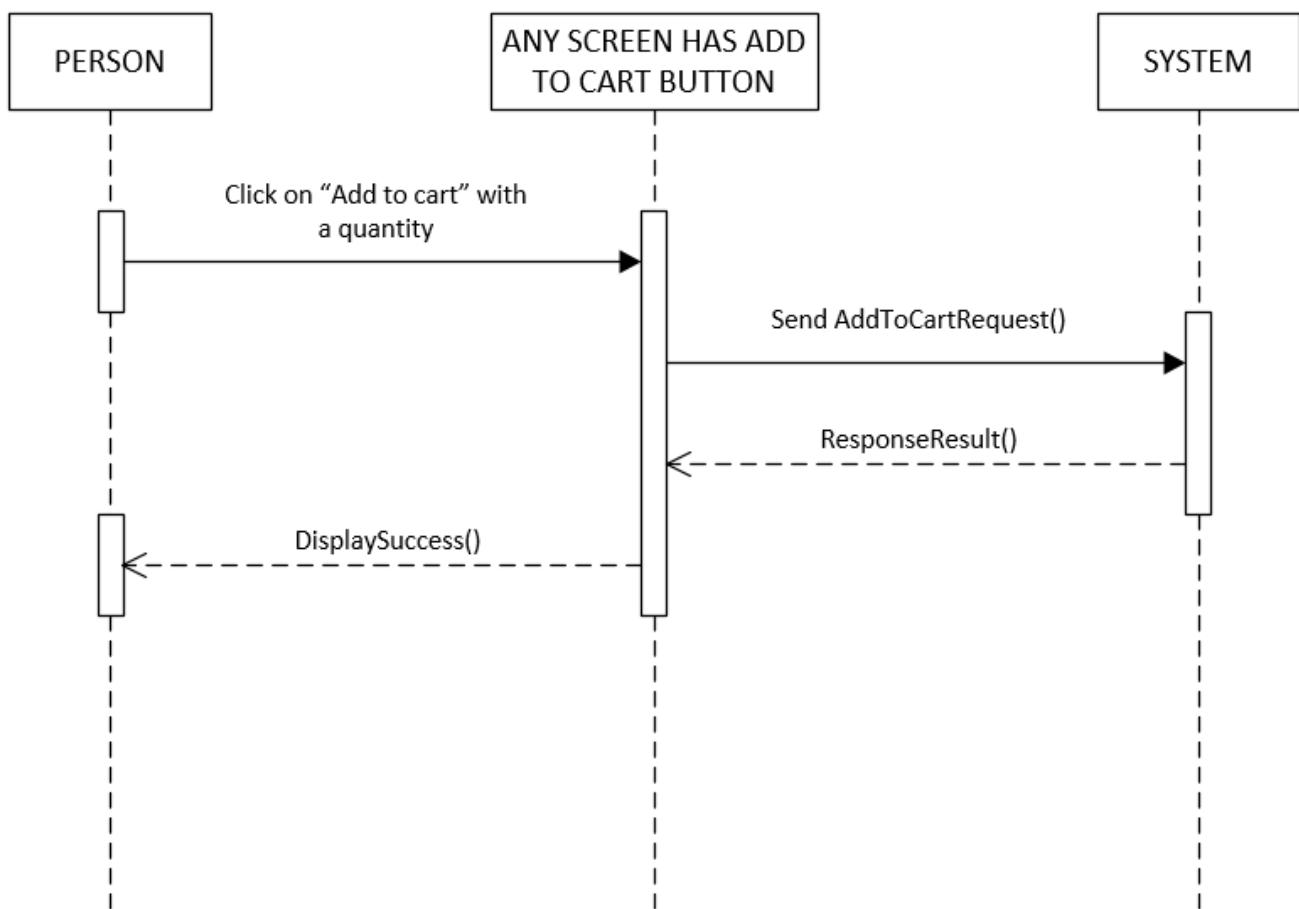


2.4.Add to cart / Increase quantity

Author	Le Ngoc Dang Khoa	
Use Case Name	Add to cart / Increase quantity	
Actors	Members (registered customers)	
Description	When customers select the quantity and clicks on "Add to Cart" in screen like Home screen, Product Details screen...., the selected product will be added/updated into list of cart items.	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Selects the quantity and clicks on "Add to Cart".	2. Check the added product: + If existed in cart, system will add the quantity to the existed item's quantity. + Else, system will add the product with the selected quantity into the list of cart items.

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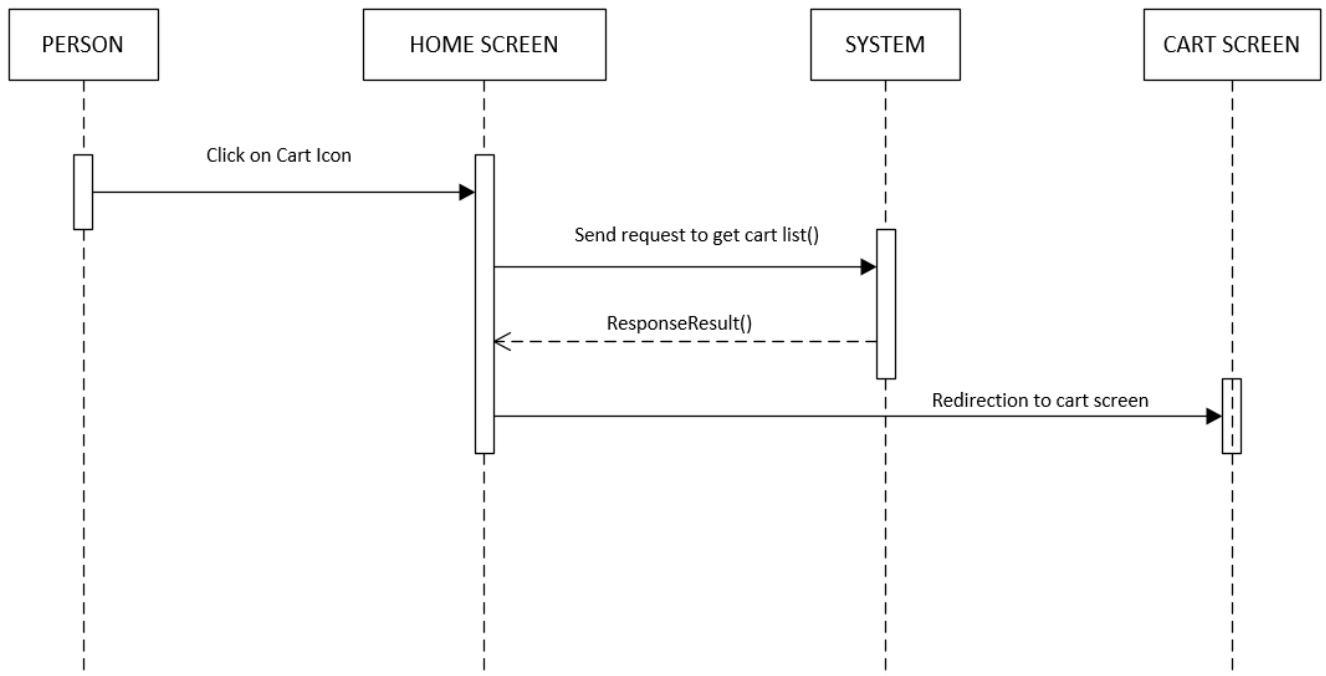


2.5.View cart

Author	Le Ngoc Dang Khoa	
Use Case Name	View cart	
Actors	Members (registered customers)	
Description	When customers cart icon to see items in cart	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Actor selects the cart icon.	2. Response with a list of item in cart base on Customer ID

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Project Group No : 1	

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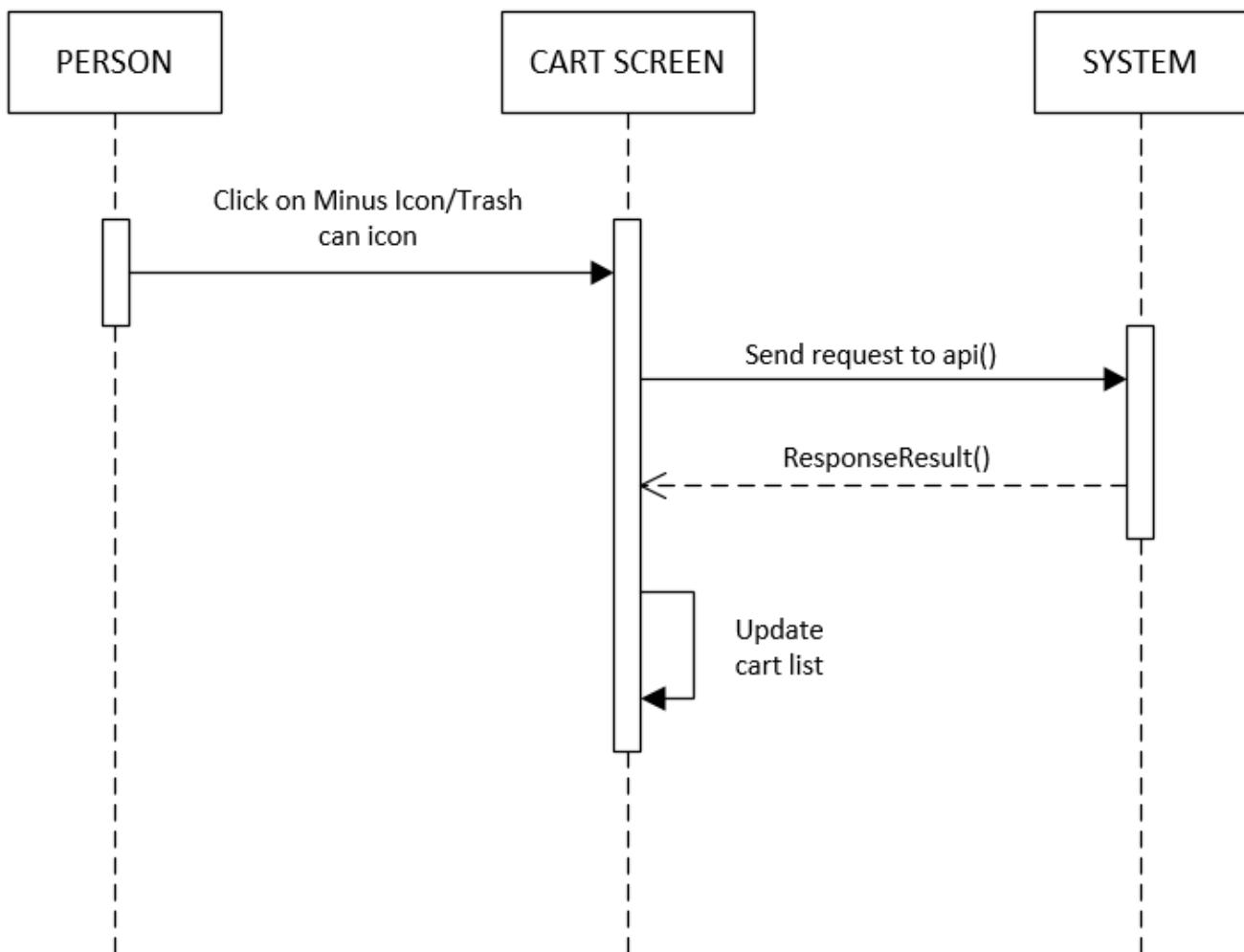


2.6.Remove from cart / Decrease quantity

Author	Le Ngoc Dang Khoa	
Use Case Name	Remove from cart / Decrease quantity	
Actors	Members (registered customers)	
Description	In Cart screen, when the customer click on Minus icon to decrease quantity or click on Trash can icon to remove product from cart	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Click on Minus icon or Trash can icon	2. <ul style="list-style-type: none"> - Click on Minus icon, decrease quantity of product by 1. - Click on Trash can icon: remove product from cart

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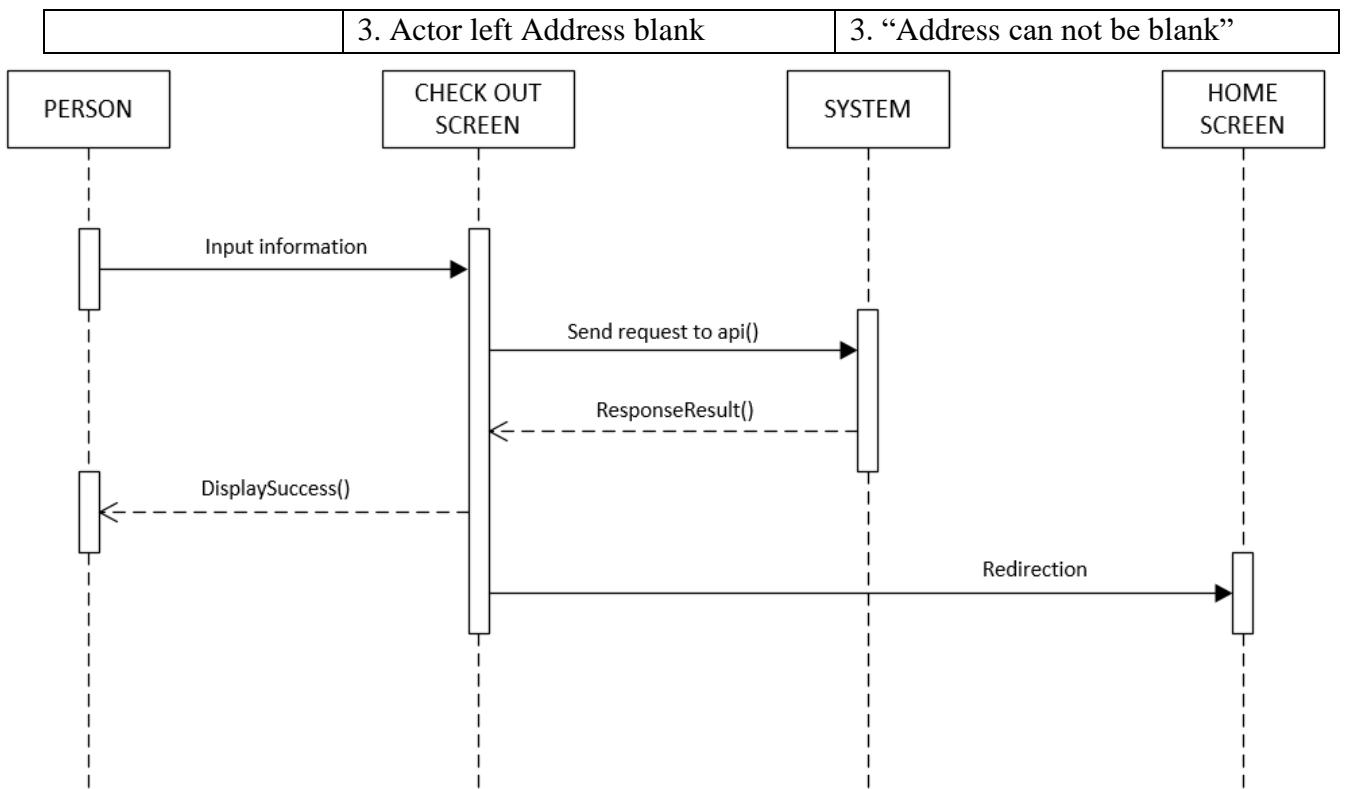


2.7.Check out

Author	Le Ngoc Dang Khoa	
Use Case Name	Check out	
Actors	Members (registered customers)	
Description	Display field for customers to input information about shipping and payment method.	
Requirements	List of cart items can not be null.	
	Actor Actions	System Responses
Basic flow	1. Actor input shipping information (* character means that is a required field) 4. Actor click on OK	2. System check information [Exception 1] 3. System show a confirm message for Actor to confirm. 5. System add create a new Order.
Exception	[Exception 1] 1. Actor left Name blank 2. Actor left Phone blank	Display error message: 1. "Name can not be blank" 2. "Phone can not be blank"

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Project Group No : 1	

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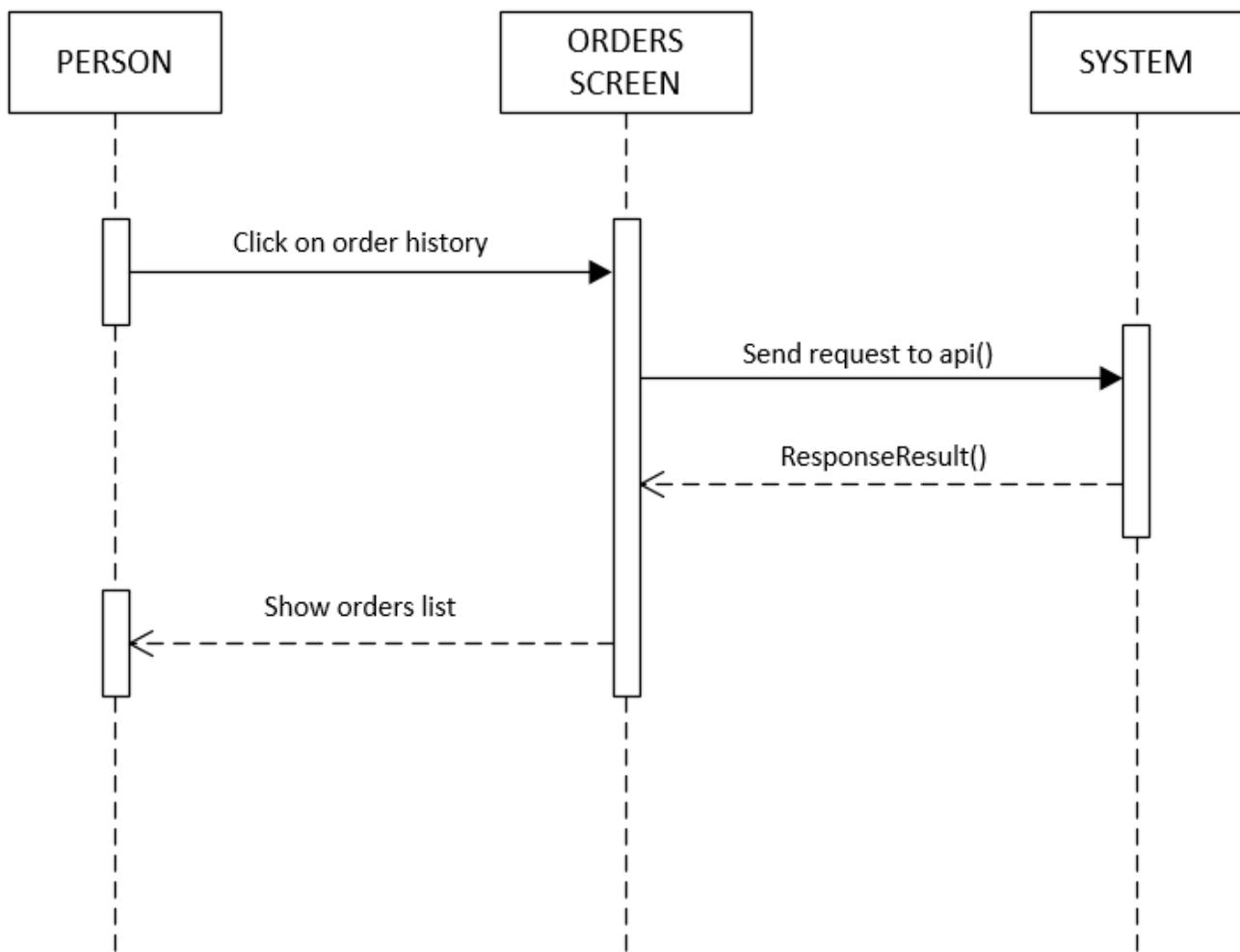


2.8.View orders list

Author	Le Ngoc Dang Khoa	
Use Case Name	View orders list	
Actors	Members (registered customers)	
Description	Customers want to see their order list to check status of an order	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Clicks on Orders history in the navigation drawer	2. System display all Orders of the customer in the orders screen

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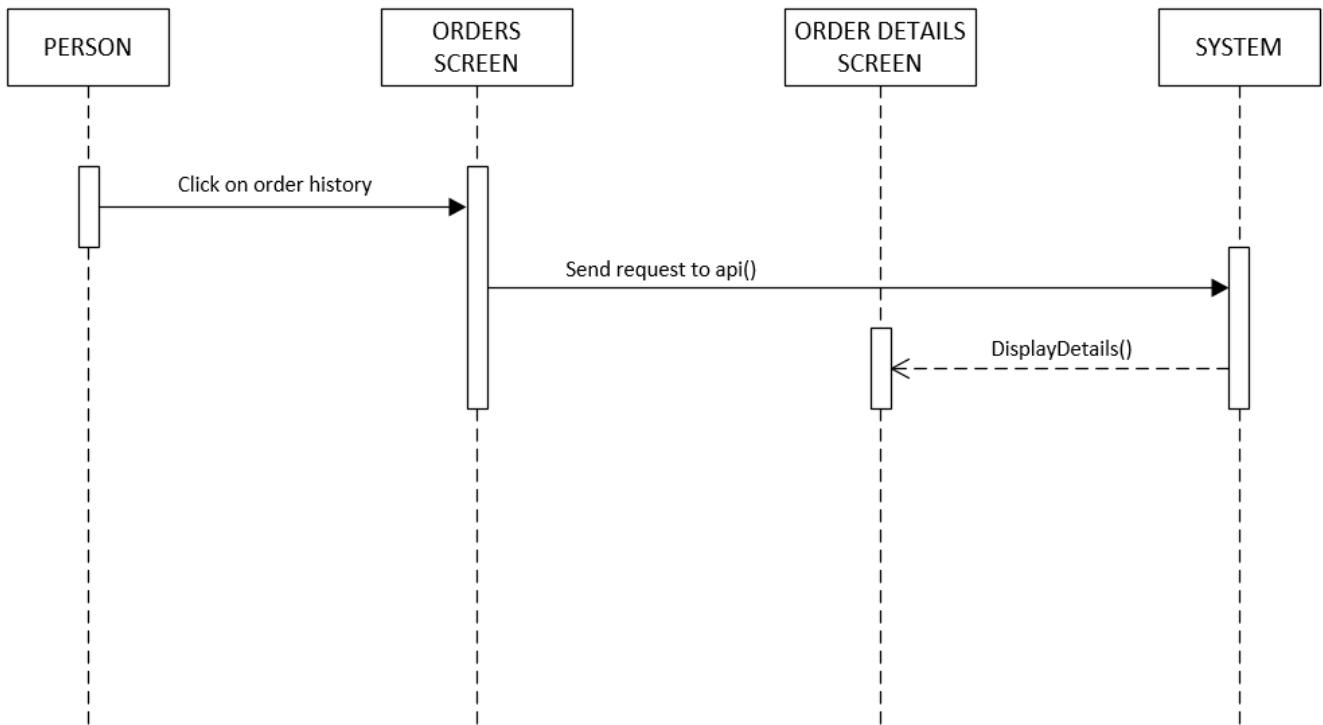


2.9.View order details

Author	Le Ngoc Dang Khoa	
Use Case Name	View order details	
Actors	Members (registered customers)	
Description	Customers want to see the details of an order	
Requirements		
	Actor Actions	System Responses
Basic flow	1. Actors click on an order to check it details	2. System response with the details of an order base on OrderCode

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3. Admin

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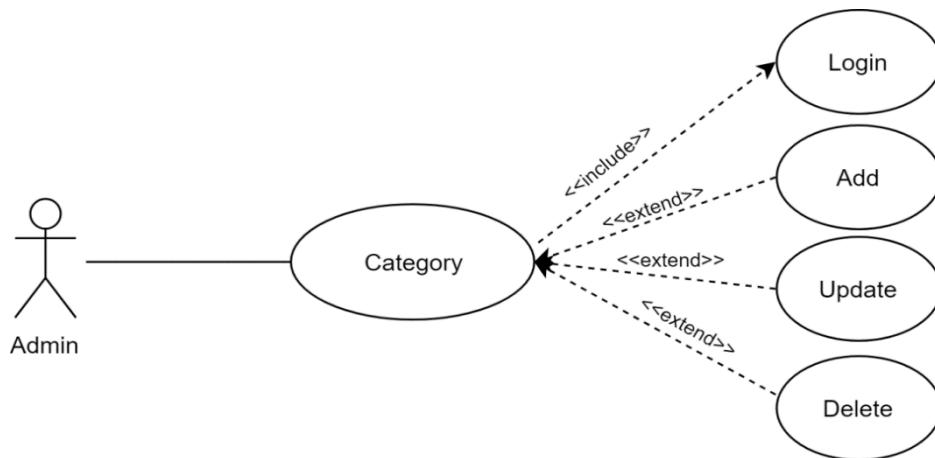
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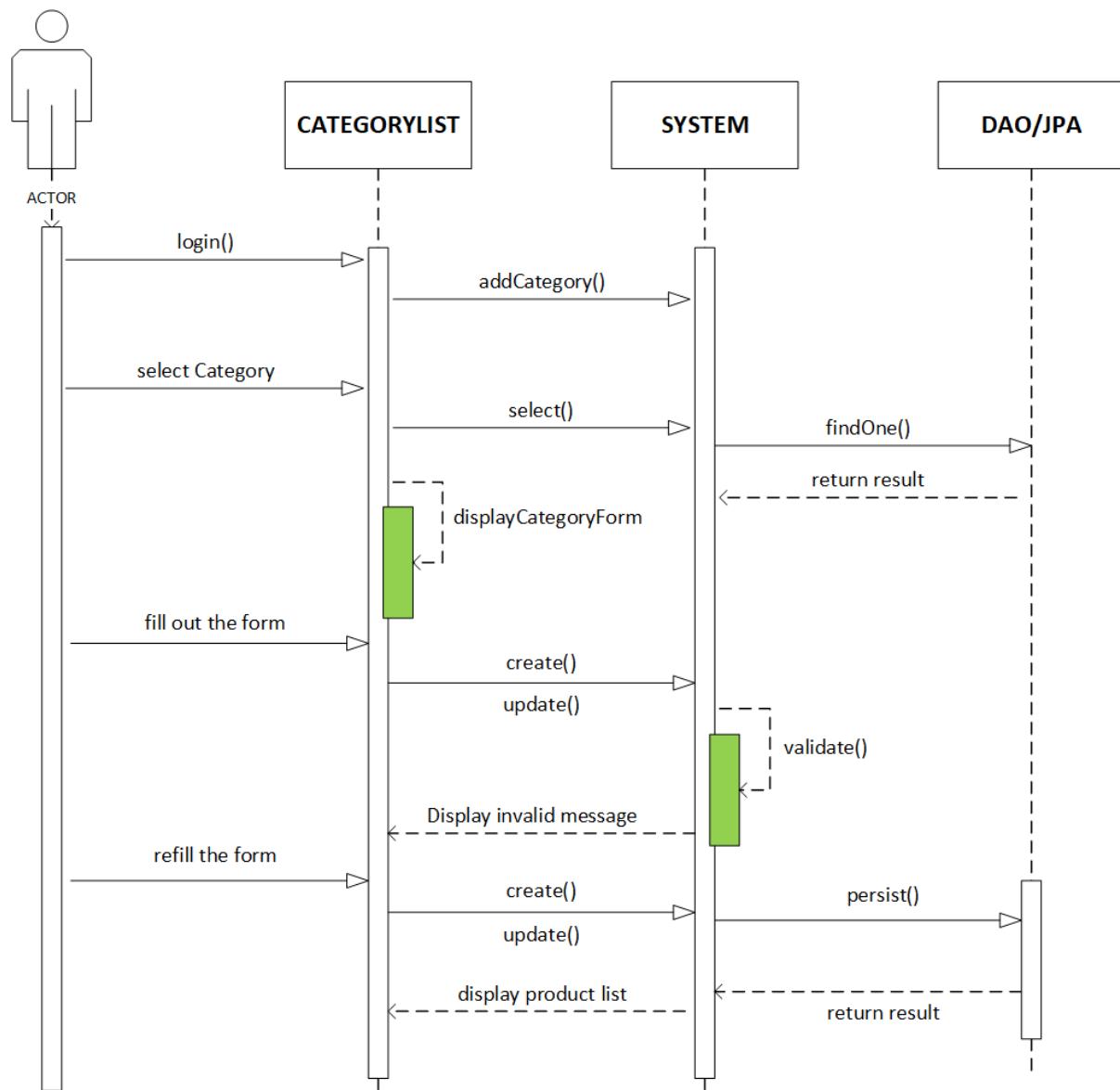
3.1. Admin can manage category



Author		
Use Case Name	Admin manage categories	
Actors	Admin	
Description	Admin can add, update category	
Requirements	Admin must log in successfully	
Pre-conditions		
Post-conditions	Success: Display Categories list	
	Actor Actions	System Responses
Basic flow	1. Actor chooses Category on menu. 3. Actor clicks 'Add New Category' button or select Category to update. 5. Actor inputs information to create/ update Category.	2. System redirects to 'Category List' page and displays a list of Category. 4. System displays a form with the following fields: - Category's Name 6. System validates inputs. 7. System adds Category into the database. 8. System displays confirmation message or error message.
Alternative Flow		
Exception Flow	1. Actor left 'Category's Name' field blank.	System displays messages: - 'Category's Name cannot be blank.

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Project Group No : 1	

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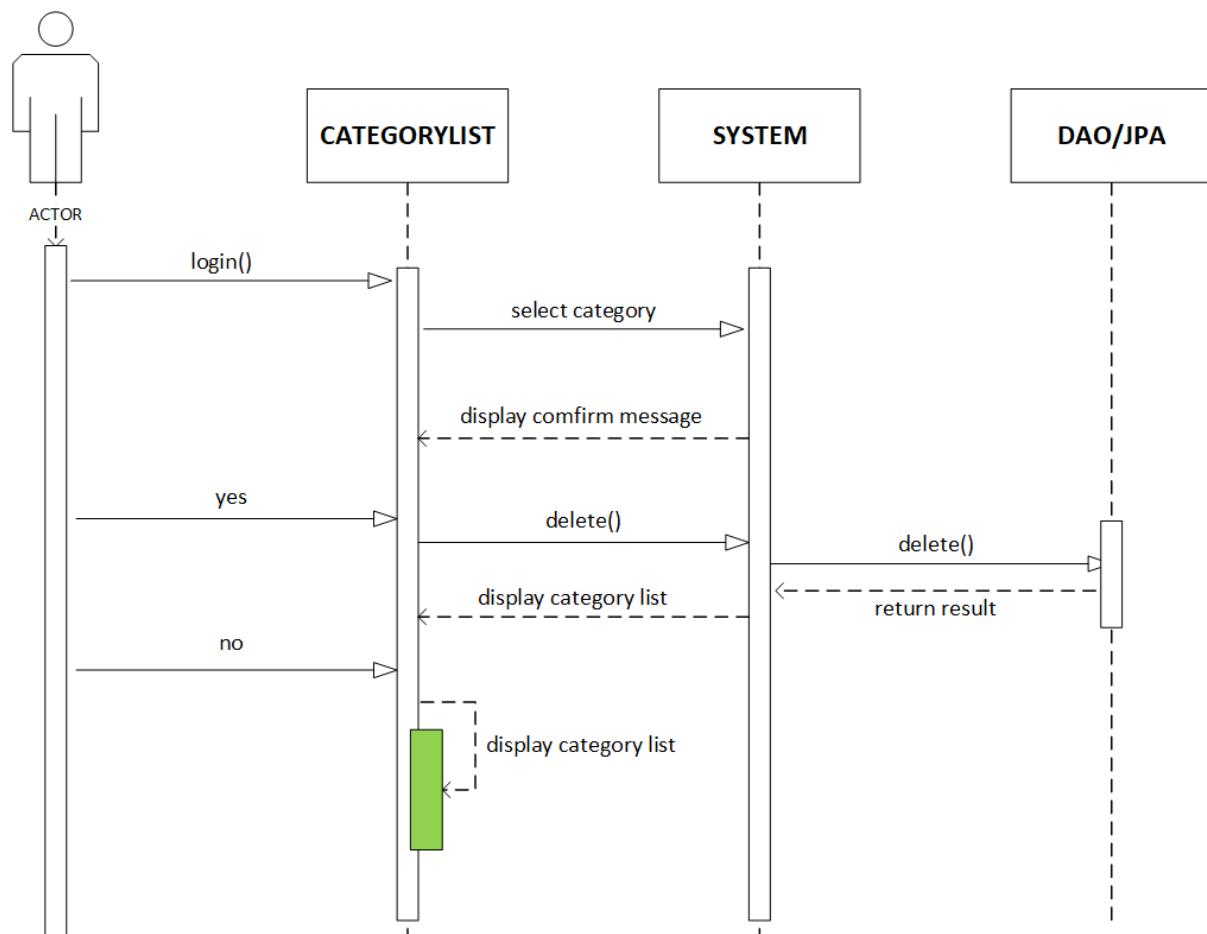


Author	Nguyen Thi Thuy Trang	
Use Case Name	Admin manage categories	
Actors	Admin	
Description	Admin can delete category	
Requirements	Admin must log in successfully	
Pre-conditions		
Post-conditions	Success: Category is deleted from the database	
	Actor Actions	System Responses
Basic flow	1. Actor chooses Category Tab on menu.	2. System redirects to 'Category List' page and displays a list of existing Categories.

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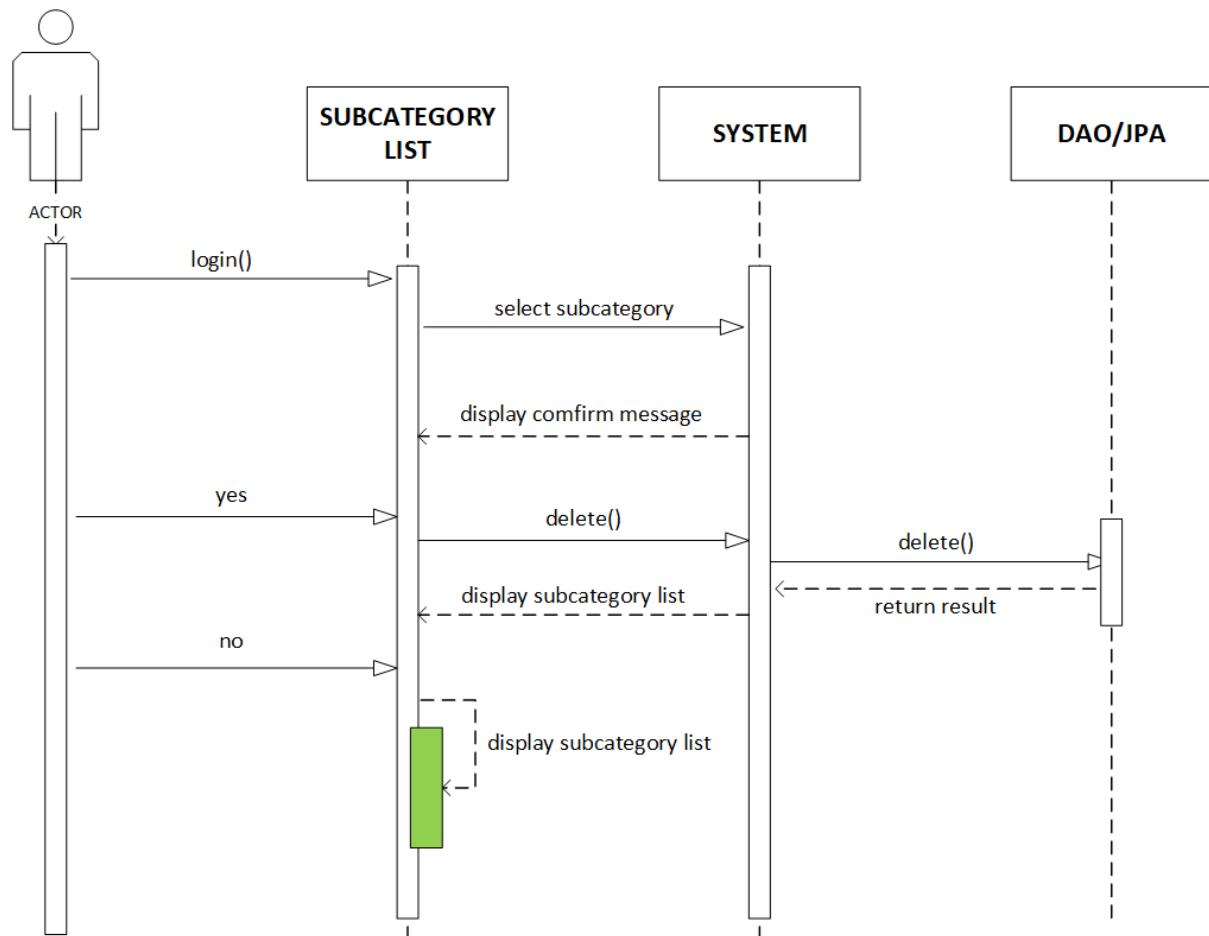
	3. Actor clicks on 'Delete' button and confirm.	4. System deletes Category from database. 5. System displays confirmation message or error message.
Alternative Flow		
Exception Flow		



Author		
Use Case Name	Admin manage units	
Actors	Admin	
Description	Admin can delete unit	
Requirements	Admin must log in successfully	
	Actor Actions	System Responses
Basic flow	1. Actor chooses Unit Tab on menu.	2. System redirects to 'Unit List' page and displays a list of existing Units.
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Project Group No : 1		

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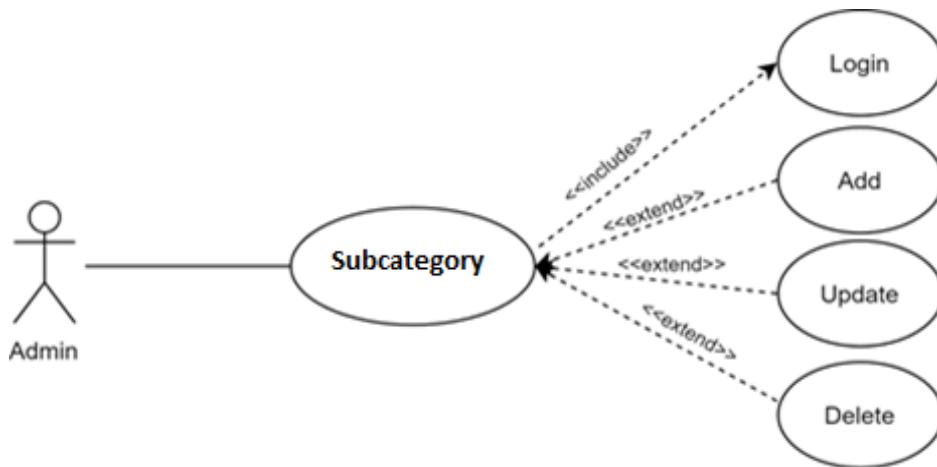
	3. Actor clicks on 'Delete' button and confirm.	4. System deletes Unit from database. 5. System displays confirmation message or error message.
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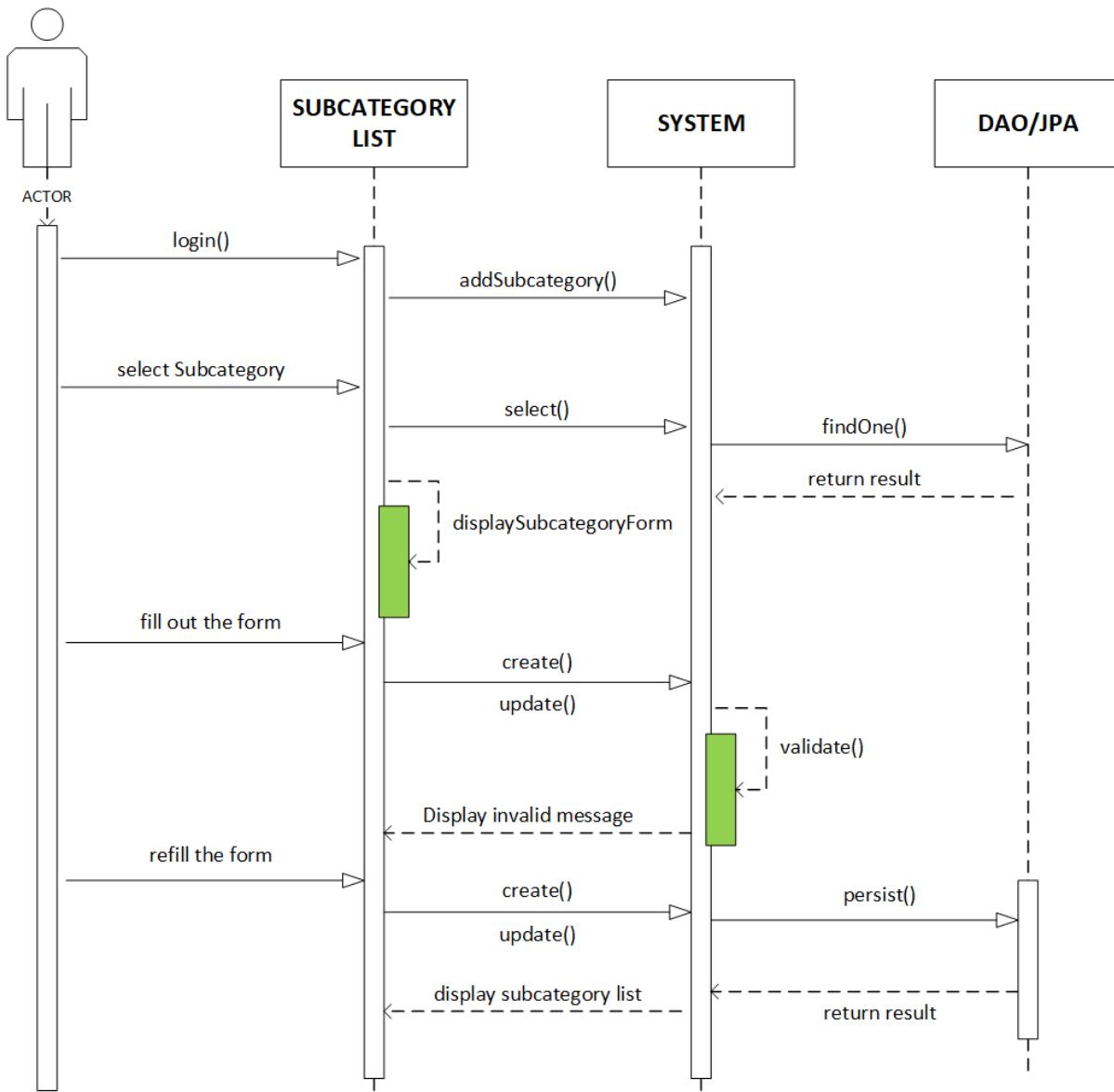
3.2. Admin can manage sub category



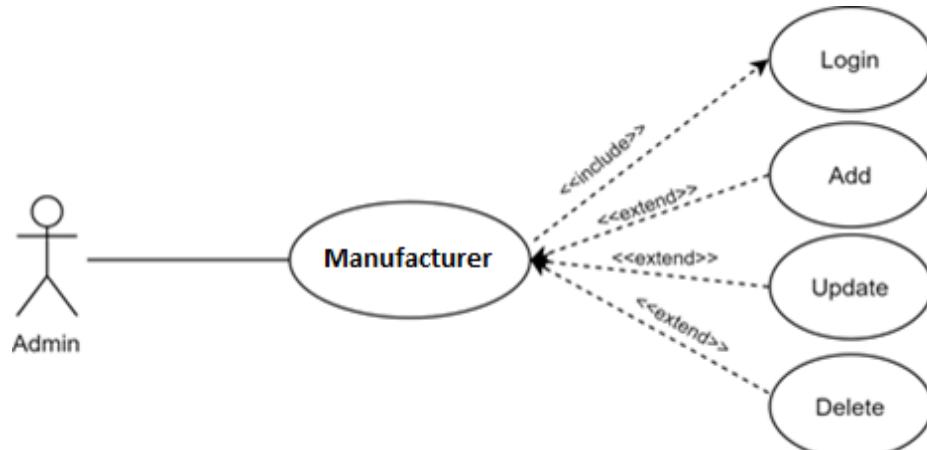
Author		
Use Case Name	Admin manage units	
Actors	Admin	
Description	Admin can add, update unit	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses Unit on menu. 3. Actor clicks 'Add New Unit' button or select Unit to update. 5. Actor inputs information to create/ update Unit .	2. System redirects to 'Unit List' page and displays a list of Unit . 4. System displays a form with the following fields: - Unit's Name 6. System validates inputs. 7. System adds Unit into the database. 8. System displays confirmation message or error message.
Alternative Flow		
Exception Flow	1. Actor left input field blank.	System displays messages: - Input field cannot be blank.

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3.3. Admin can manage manufacturer



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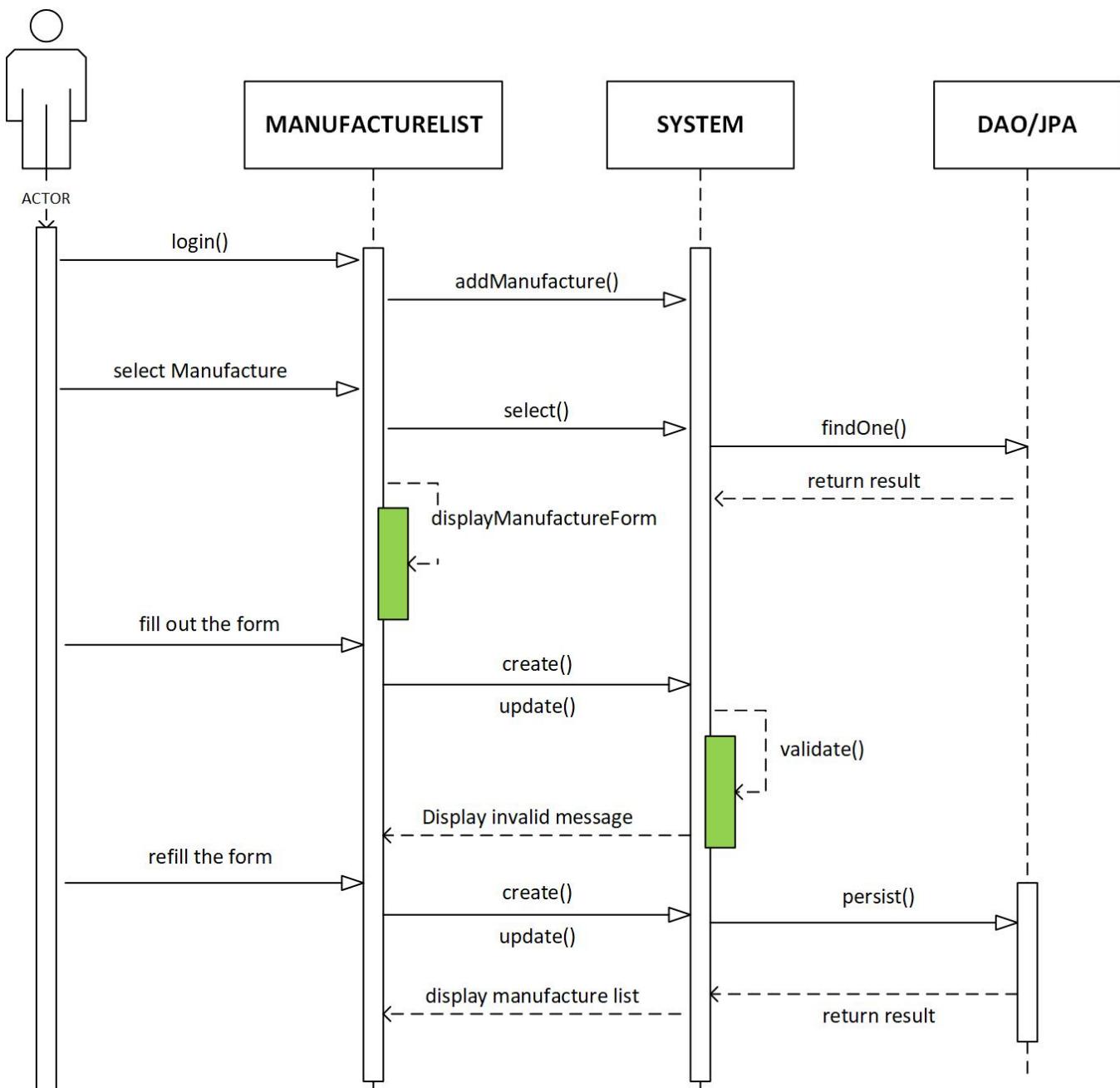
Design Plan : HKTT Store	Document Name : Review 1	SWD/Form No.
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Author			
Use Case Name	Admin manage manufacturer		
Actors	Admin		
Description	Admin can add, manufacturer		
Requirements	Admin must log in successfully		
Basic Flow	<ol style="list-style-type: none"> 1. Actor chooses manufacturer on menu. 3. Actor clicks 'Add New manufacturer ' button or select Unit to update. 5. Actor inputs information to create/ update manufacturer . 2. System redirects to ' manufacturer List' page and displays a list of Unit . 4. System displays a form with the following fields show 6. System validates inputs. 7. System adds manufacturer into the database. 8. System displays confirmation message or error message. 		
Alternative Flow			

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Design Plan : HKTT Store	Document Name : Review 1	SWD/Form No.
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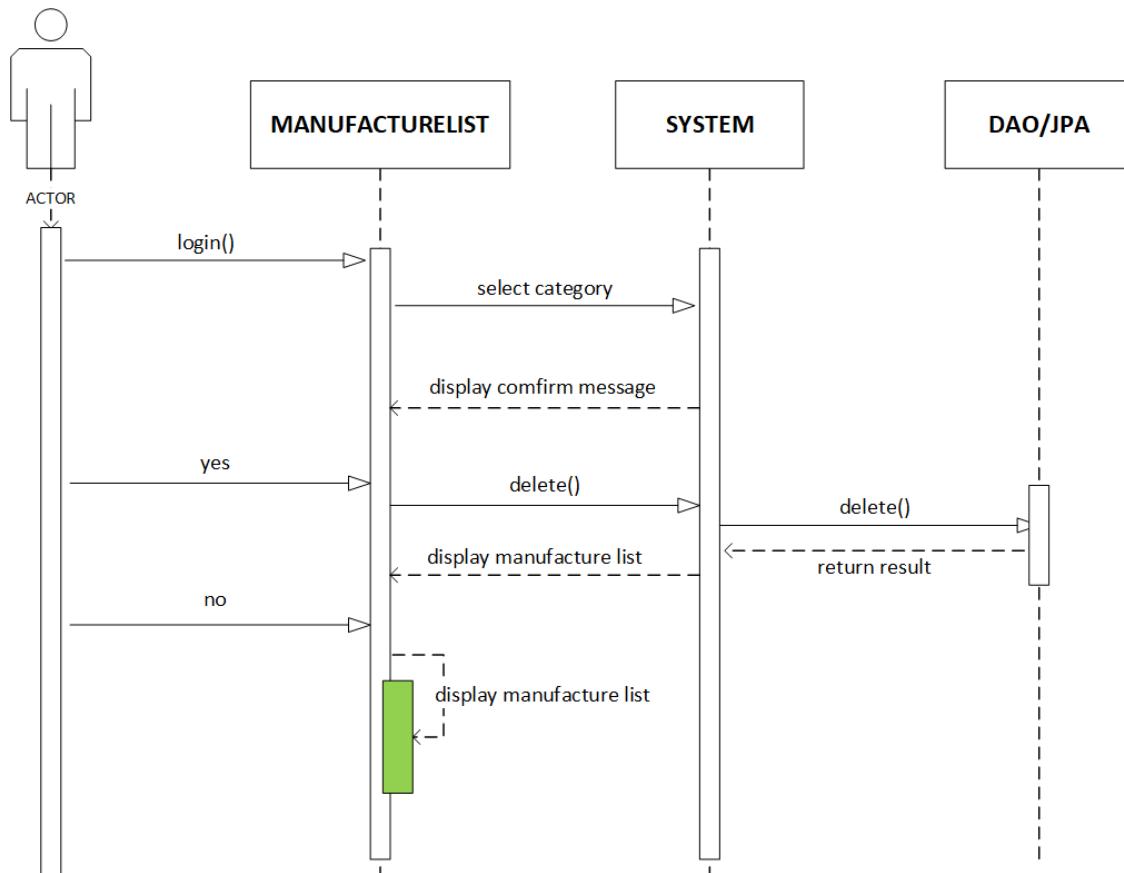
Exception Flow	1. Actor left input field blank.	System displays messages: - Input field cannot be blank.
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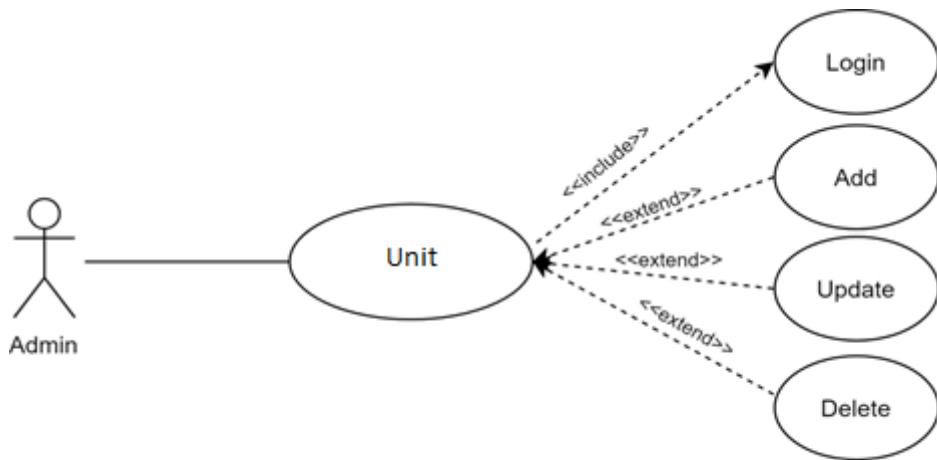
Author			
Use Case Name	Admin manage Manufacturers		
Actors	Admin		
Description	Admin can delete manufacturer		
Requirements	Admin must log in successfully		
Basic Flow	1. Actor chooses manufacturer Tab on menu. 3. Actor clicks on 'Delete' button and confirm.		
	2. System redirects to ' manufacturer List' page and displays a list of existing manufacturer . 4. System deletes manufacturer from database. 5. System displays confirmation message or error message.		
Alternative Flow			
Exception Flow			



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Project Group No : 1	

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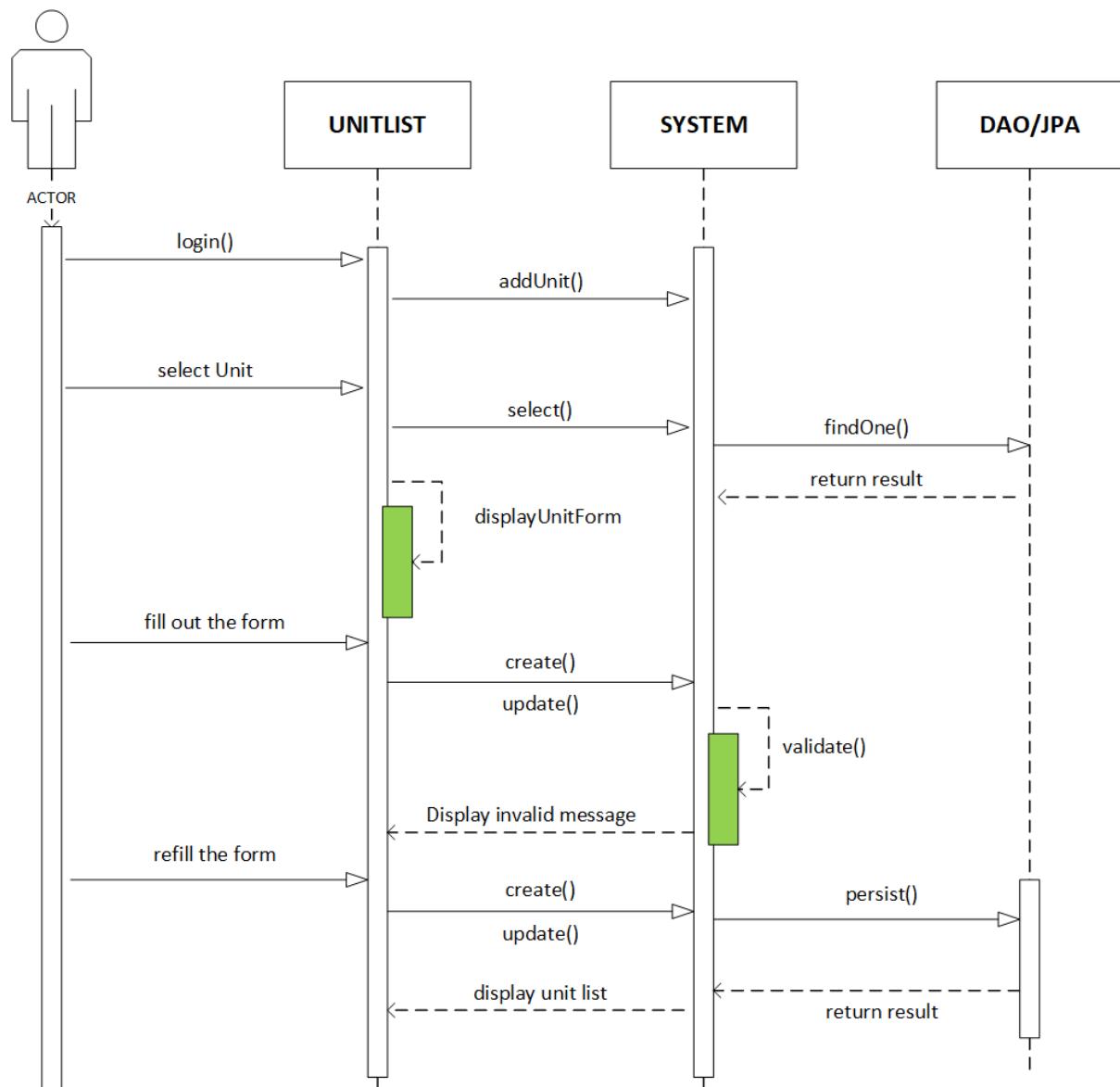
3.4. Admin can manage unit



Author			
Use Case Name	Admin manage units		
Actors	Admin		
Description	Admin can add, update unit		
Requirements	Admin must log in successfully		
Basic Flow	1. Actor chooses Unit on menu. 3. Actor clicks 'Add New Unit' button or select Unit to update. 5. Actor inputs information to create/update Unit .	2. System redirects to ' Unit List' page and displays a list of Unit . 4. System displays a form with the following fields: - Unit 's Name 6. System validates inputs.	7. System adds Unit into the database. 8. System displays confirmation message or error message.
Alternative Flow			
Exception Flow	1. Actor left input field blank.	System displays messages: - Input field cannot be blank.	

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Project Group No : 1	

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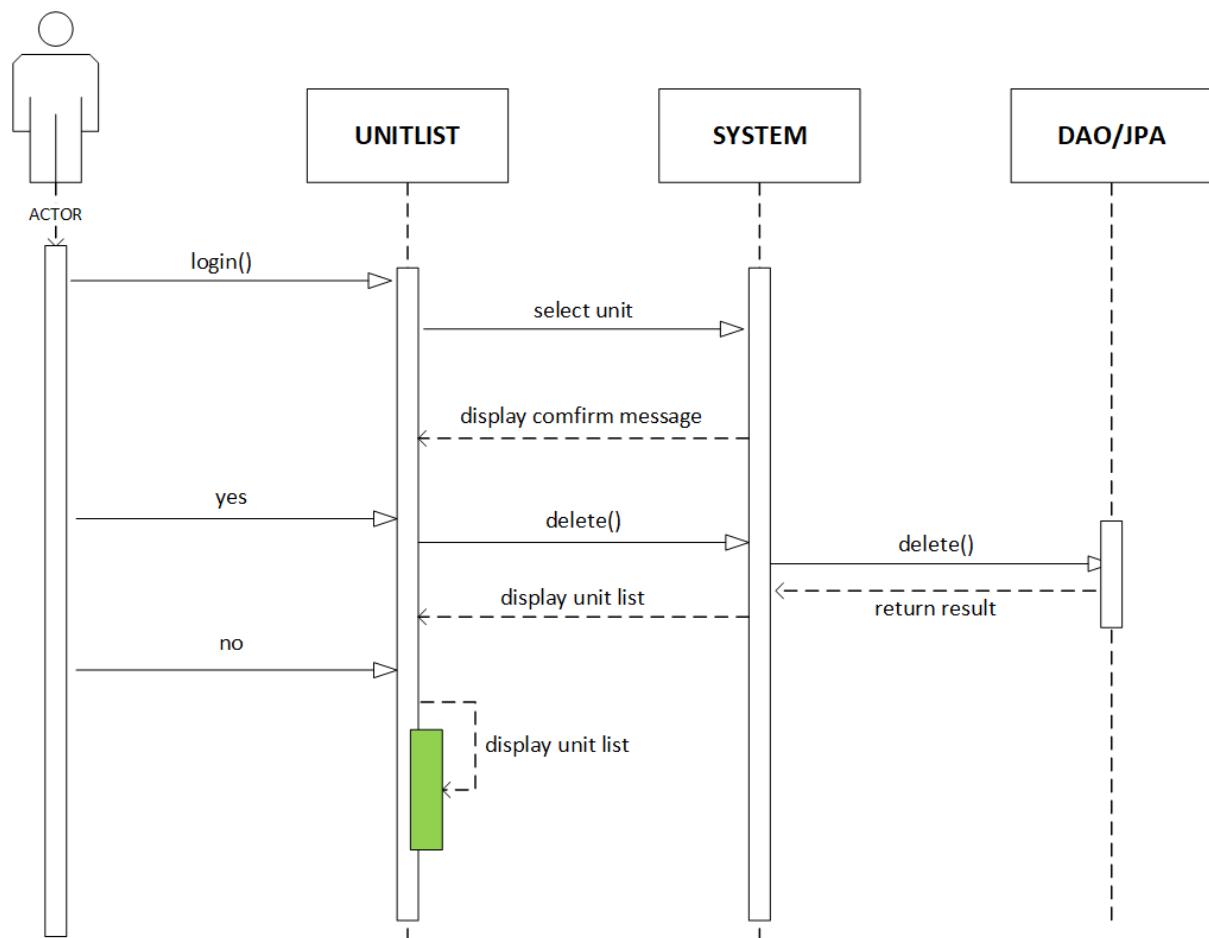


Author		
Use Case Name	Admin manage units	
Actors	Admin	
Description	Admin can delete unit	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses Unit Tab on menu.	2. System redirects to 'Unit List' page and displays a list of existing Units. 4. System deletes Unit from database.

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Project Group No : 1	

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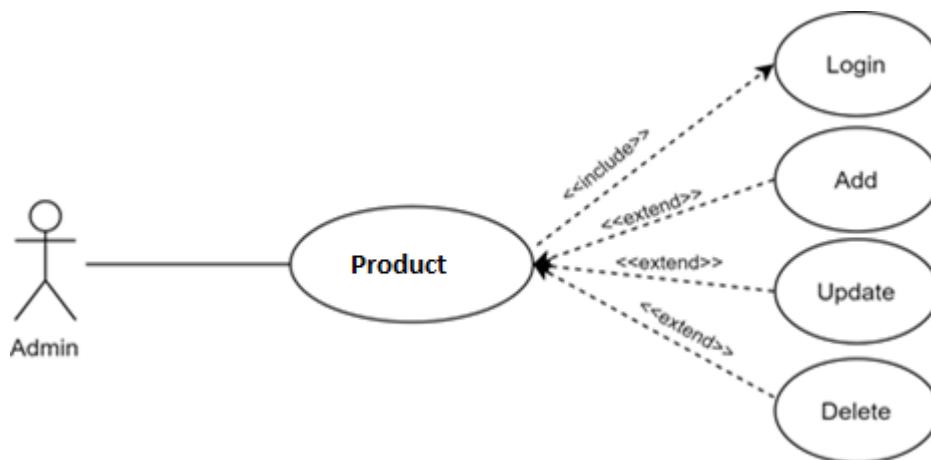
	3. Actor clicks on 'Delete' button and confirm.	5. System displays confirmation message or error message.
Alternative Flow		
Exception Flow		



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Project Group No : 1	

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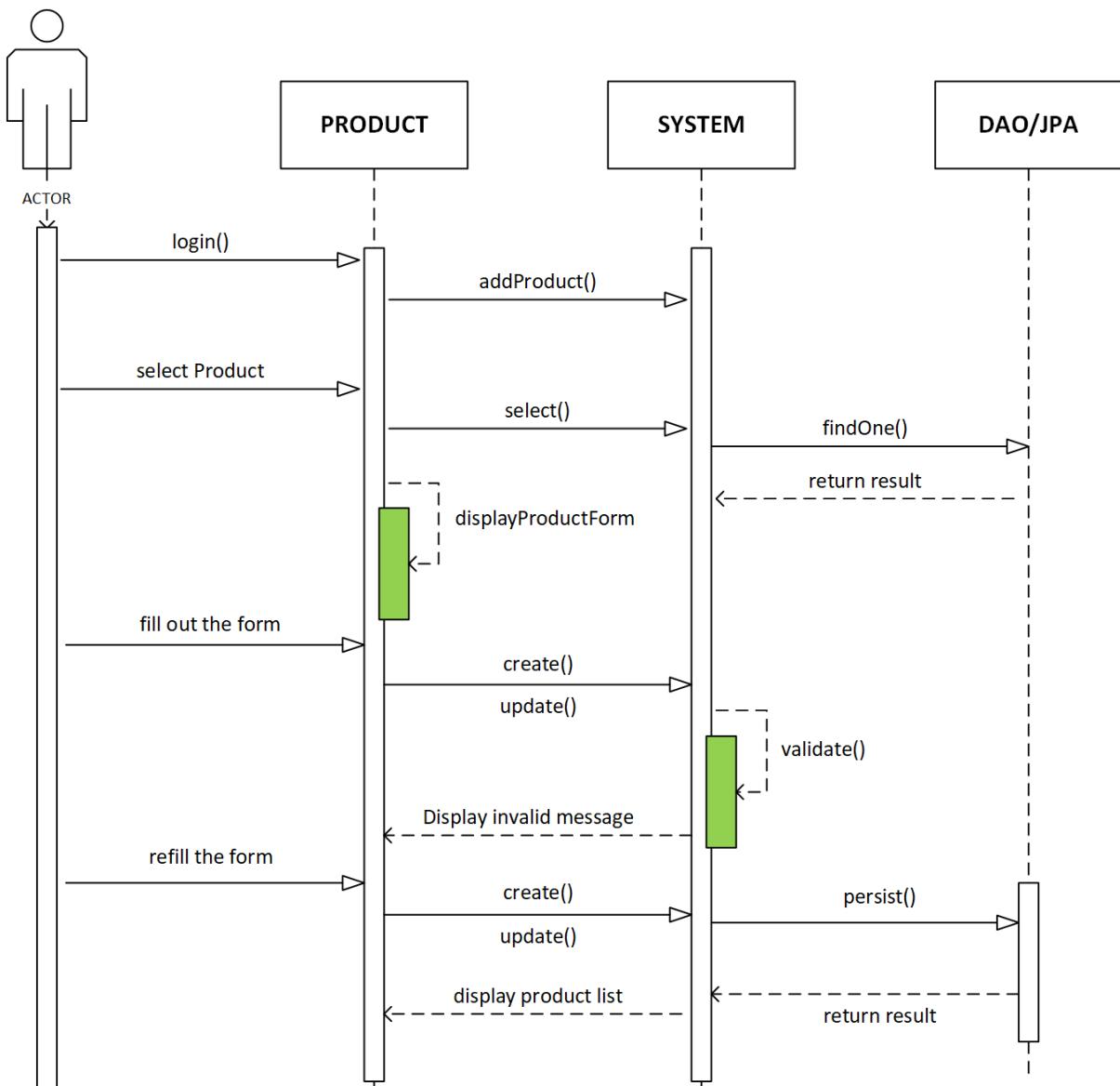
3.5. Admin can manage product



Author		
Use Case Name	Admin manage products	
Actors	Admin	
Description	Admin can add, update product	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses Unit on menu. 3. Actor clicks 'Add New product' button or select Unit to update. 5. Actor inputs information to create/ update product . 2. System redirects to 'product List' page and displays a list of Unit . 4. System displays a form with the following fields show 6. System validates inputs. 7. System adds product into the database. 8. System displays confirmation message or error message.	
Alternative Flow		
Exception Flow	1. Actor left input field field blank.	System displays messages: - Input field cannot be blank.

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Project Group No : 1	

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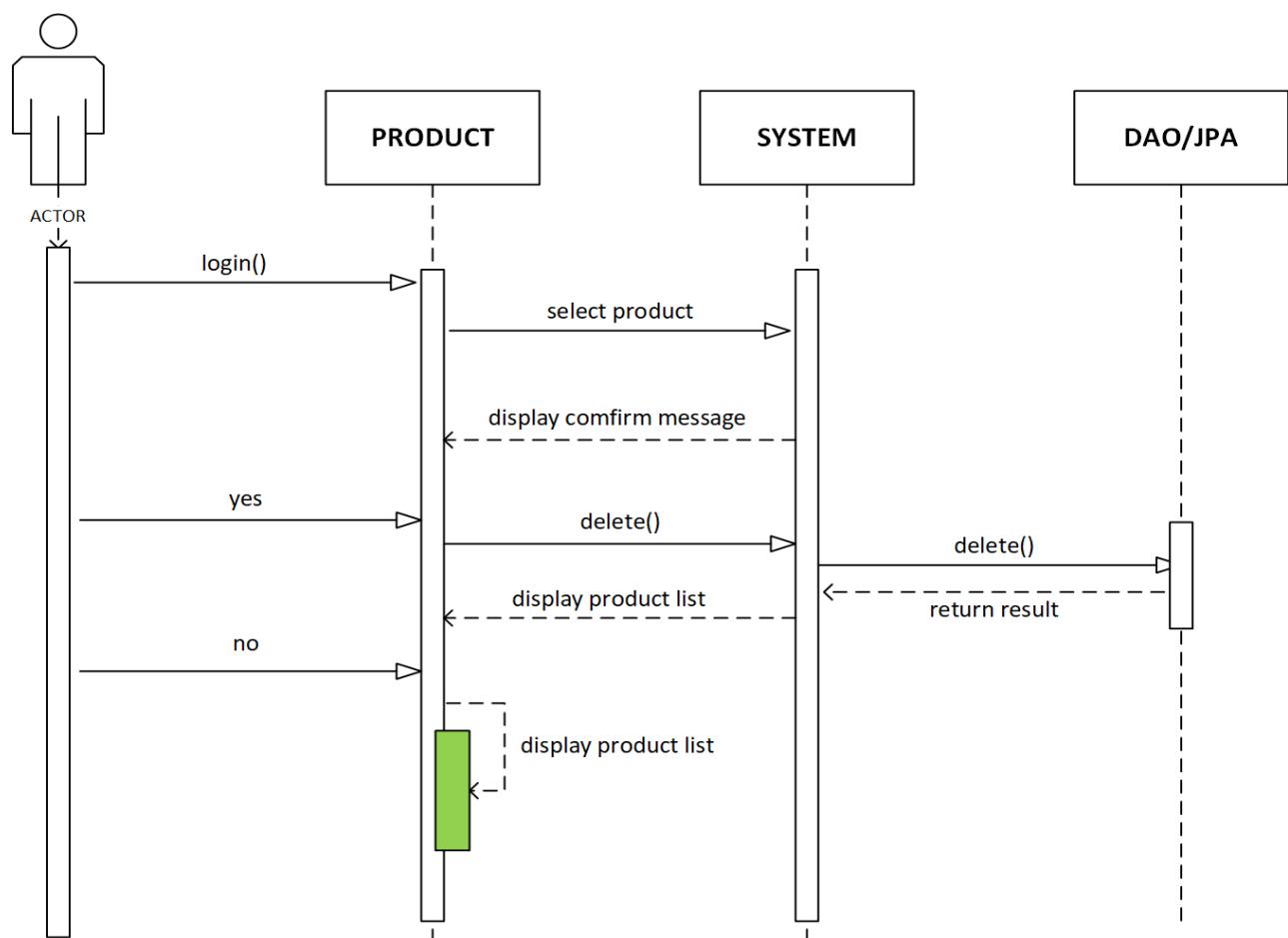


Author		
Use Case Name	Admin manage products	
Actors	Admin	
Description	Admin can delete product	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses product Tab on menu.	2. System redirects to 'product List' page and displays a list of existing products.

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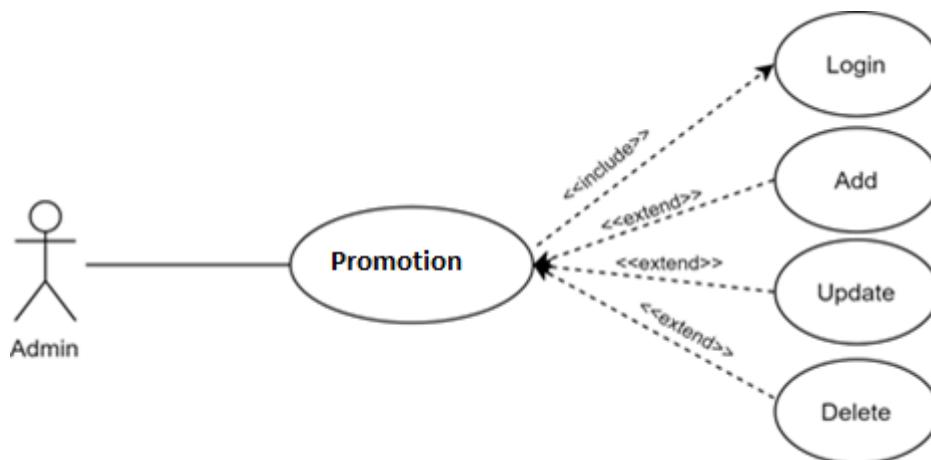
	3. Actor clicks on 'Delete' button and confirm.	4. System deletes product from database. 5. System displays confirmation message or error message.
Alternative Flow		
Exception Flow		



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Project Group No : 1	

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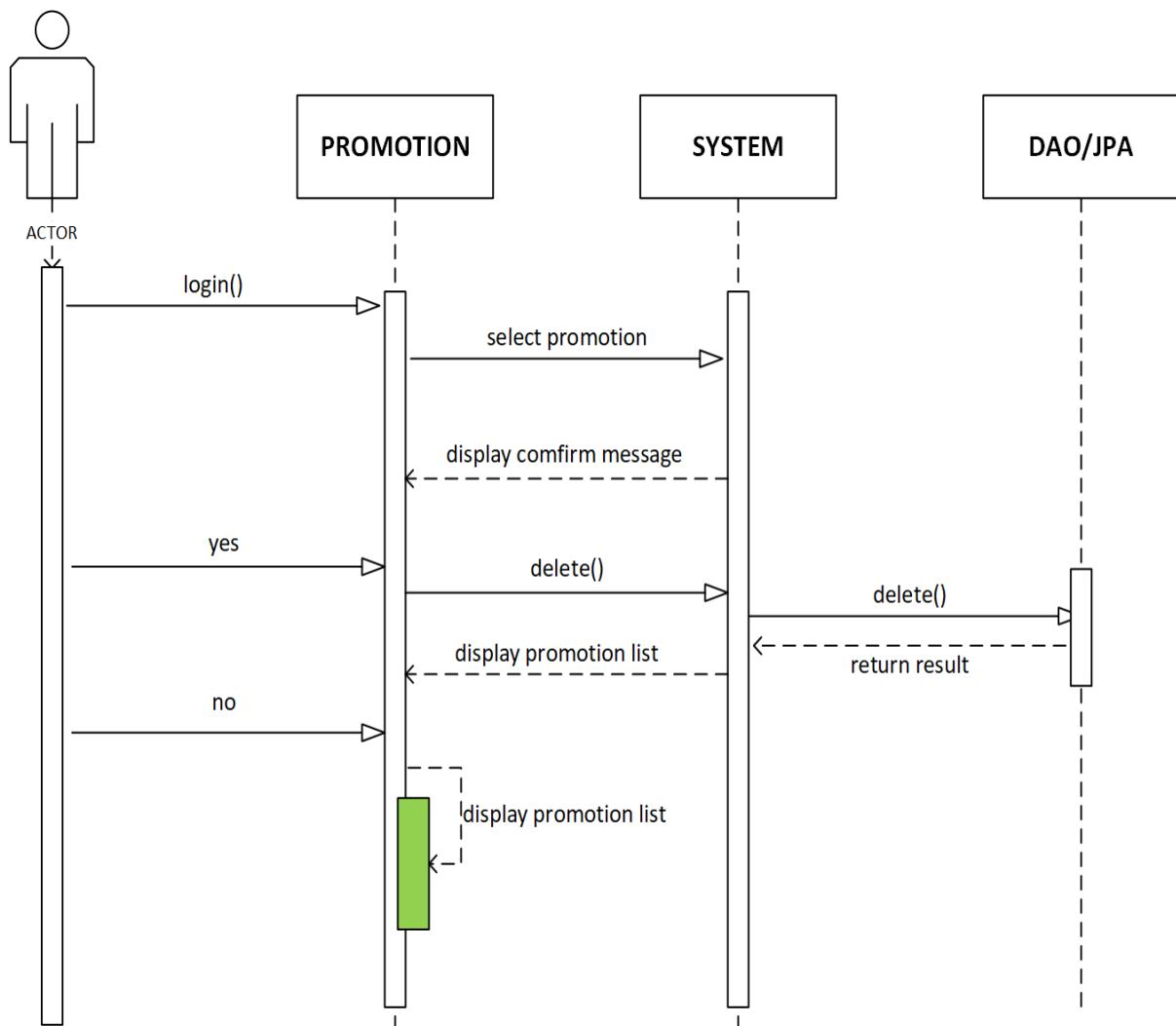
3.6. Admin can manage promotion



Author		
Use Case Name	Admin manage promotions	
Actors	Admin	
Description	Admin can add, update promotion	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses promotion on menu. 3. Actor clicks 'Add New promotion' button or select Unit to update. 5. Actor inputs information to create/ update promotion .	2. System redirects to 'promotion List' page and displays a list of promotion . 4. System displays a form with the following fields show 6. System validates inputs. 7. System adds promotion into the database. 8. System displays confirmation message or error message.
Alternative Flow		
Exception Flow	1. Actor left chosse file field blank.	System displays messages: - Image cannot be blank.

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Project Group No : 1	

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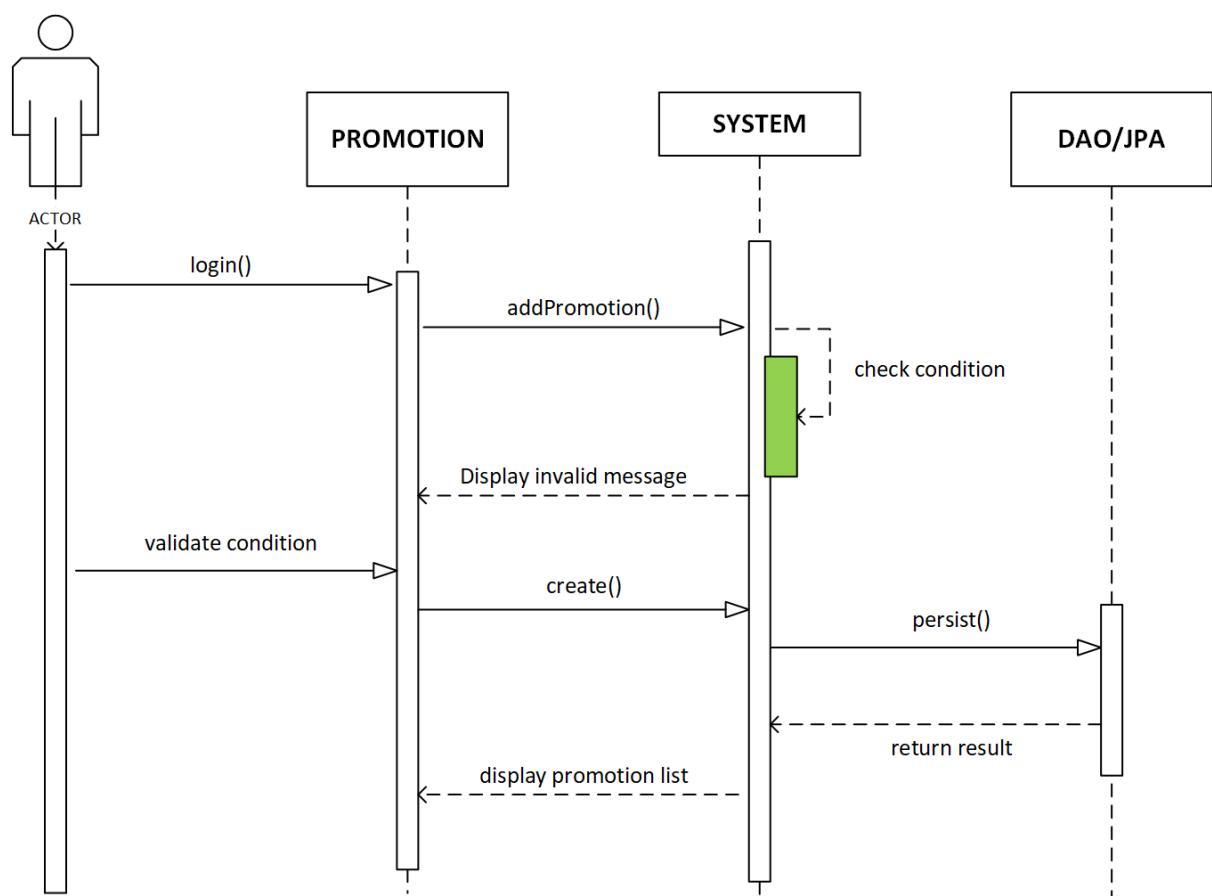


Author		
Use Case Name	Admin manage promotion s	
Actors	Admin	
Description	Admin can delete promotion	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses promotion Tab on menu.	2. System redirects to 'promotion List' page and displays a list of existing product s.

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Project Group No : 1	

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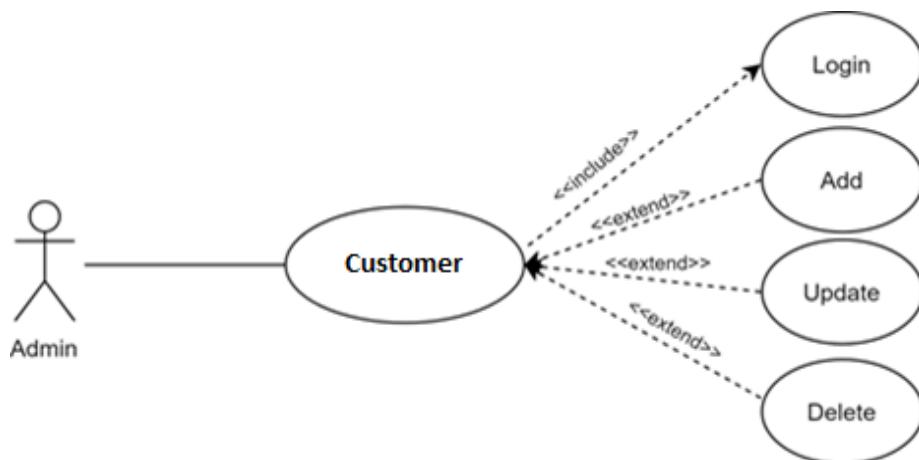
	3. Actor clicks on 'Delete' button and confirm.	4. System deletes promotion from database. 5. System displays confirmation message or error message.
Alternative Flow		
Exception Flow		



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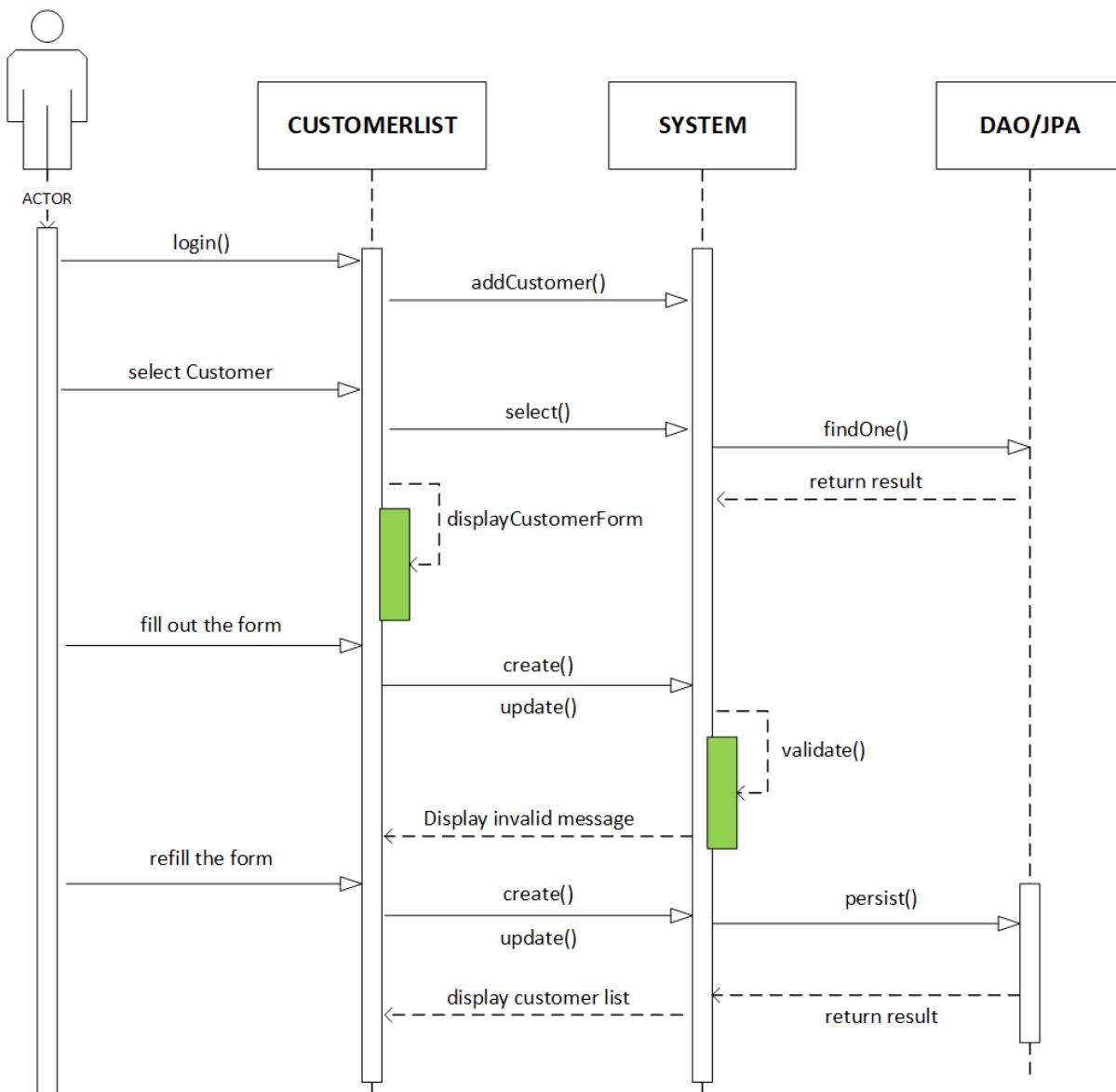
3.7. Admin can manage customer



Author		
Use Case Name	Admin manage customers	
Actors	Admin	
Description	Admin can add, update customer	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses customer on menu. 3. Actor clicks 'Add New product' button or select customer to update. 5. Actor inputs information to create/ update customer .	2. System redirects to 'Customer List' page and displays a list of Unit . 4. System displays a form with the following fields show 6. System validates inputs. 7. System adds customer into the database. 8. System displays confirmation message or error message.
Alternative Flow		
Exception Flow	1. Actor left input field field blank.	System displays messages: - Input field cannot be blank.

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Project Group No : 1	

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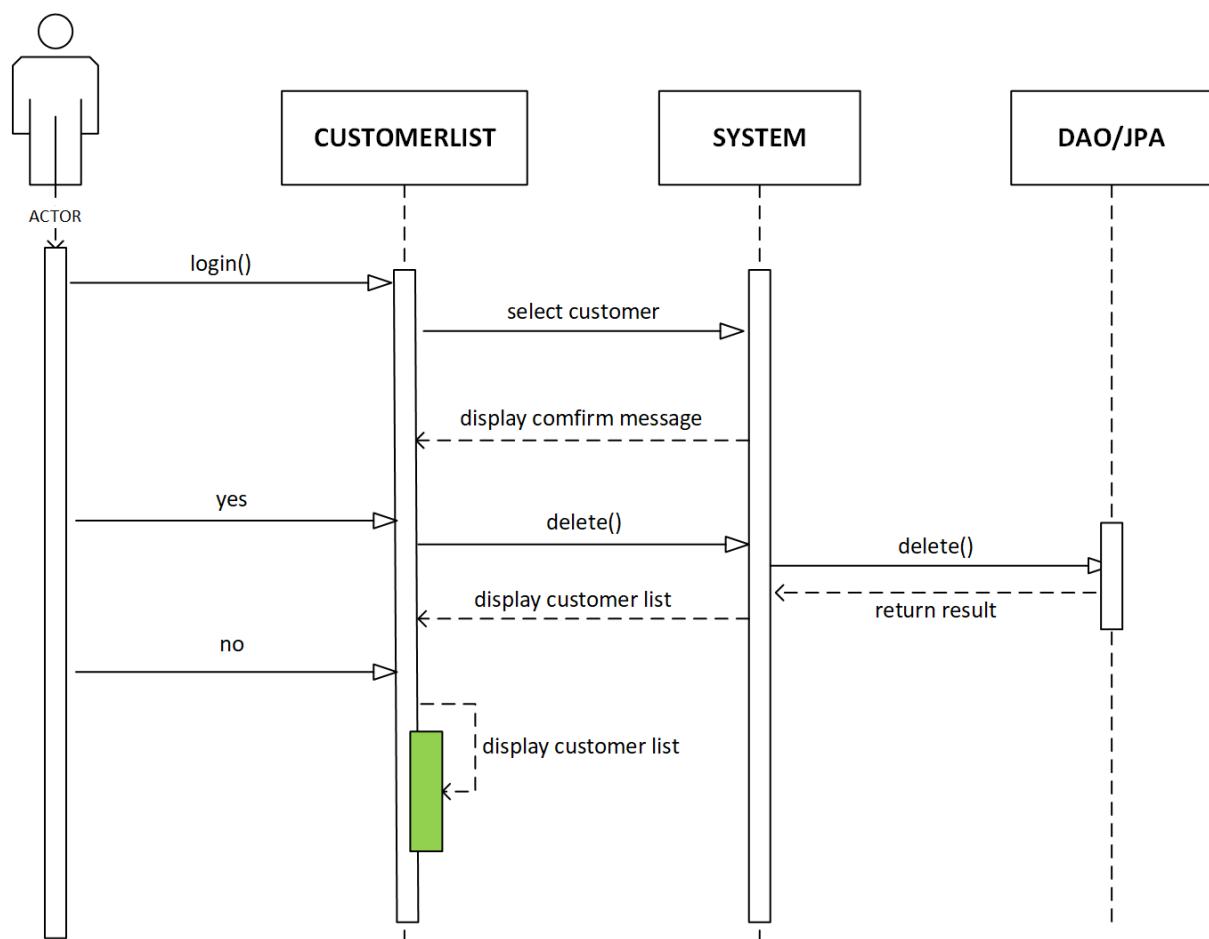


Author		
Use Case Name	Admin manage customers	
Actors	Admin	
Description	Admin can delete customer	
Requirements	Admin must log in successfully	
Basic Flow	1. Actor chooses Custome Tab on menu.	2. System redirects to 'Customer List' page and displays a list of existing Units.

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Project Group No : 1	

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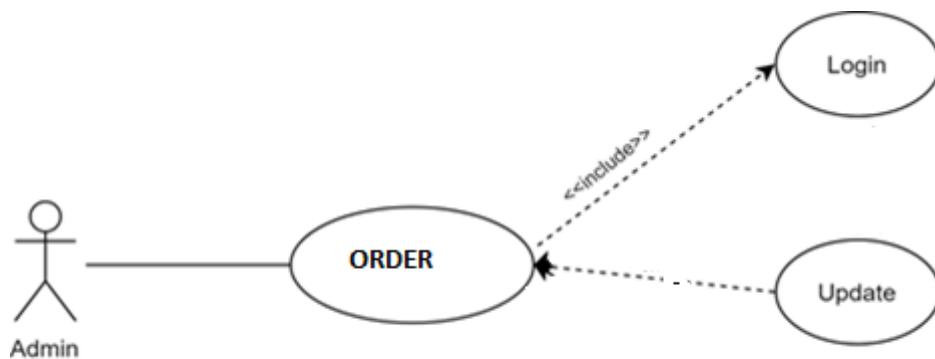
	3. Actor clicks on 'Delete' button and confirm.	4. System deletes Customer from database. 5. System displays confirmation message or error message.
Alternative Flow		
Exception Flow		



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Project Group No : 1	

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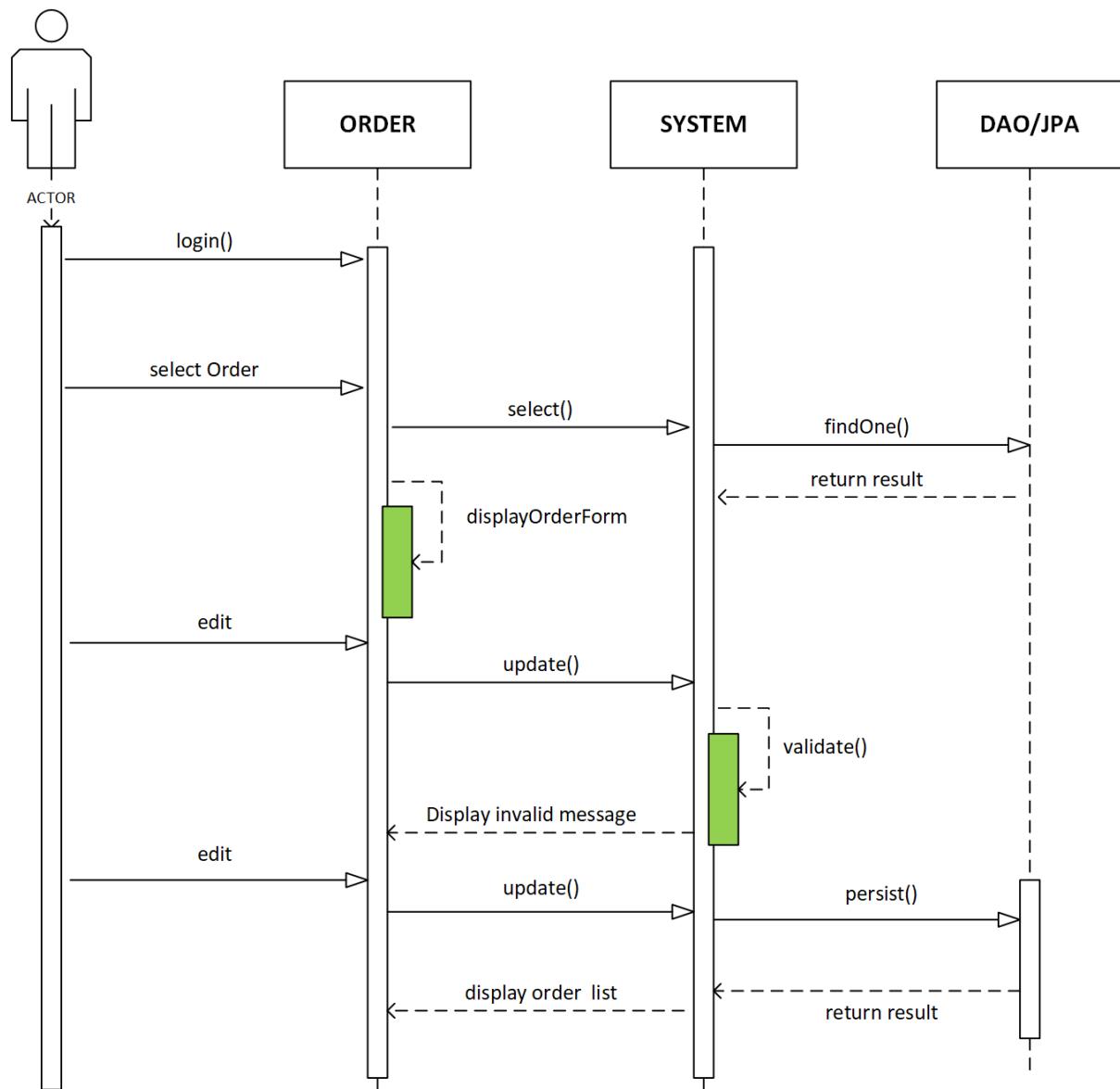
3.8. Admin can manage order



Author			
Use Case Name	Admin manage customers		
Actors	Admin		
Description	Admin can add, update customer		
Requirements	Admin must log in successfully		
Basic Flow	1. Actor chooses customer on menu. 3. Actor clicks 'Add New product' button or select customer to update. 5. Actor inputs information to create/ update customer .	2. System redirects to 'Customer List' page and displays a list of Unit .	4. System displays a form with the following fields show 6. System validates inputs. 7. System adds customer into the database. 8. System displays confirmation message or error message.
Alternative Flow			
Exception Flow	1. Actor left input field field blank.	System displays messages: - Input field cannot be blank.	

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Project Group No : 1	

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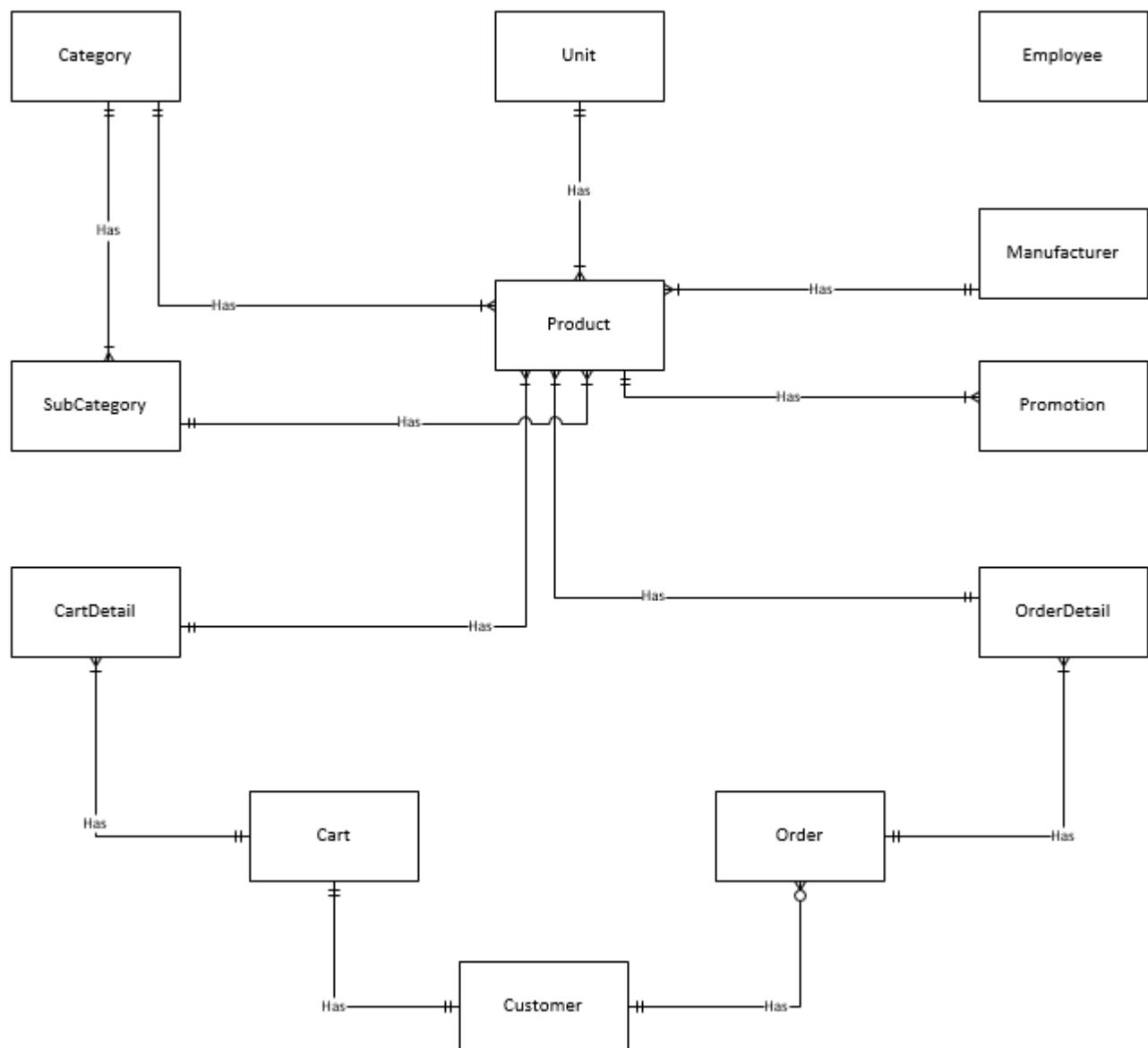
3.9. Admin view report

II. Entity Relationship Diagram (ERD):

1. Logical

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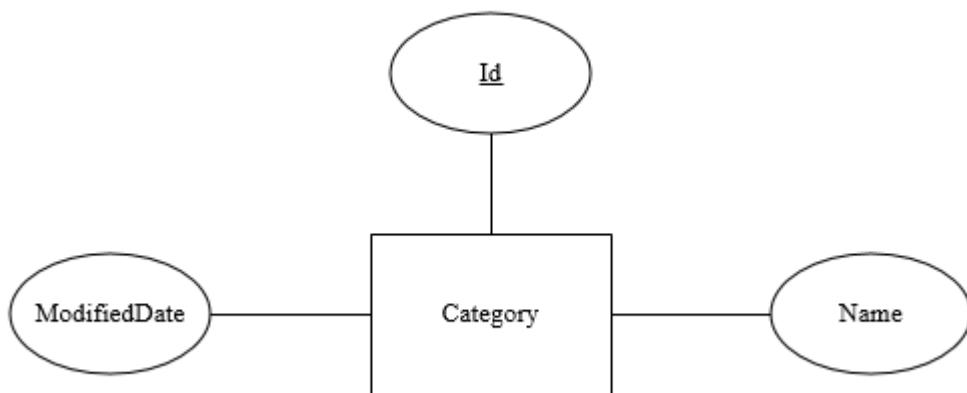


2. Entity Properties

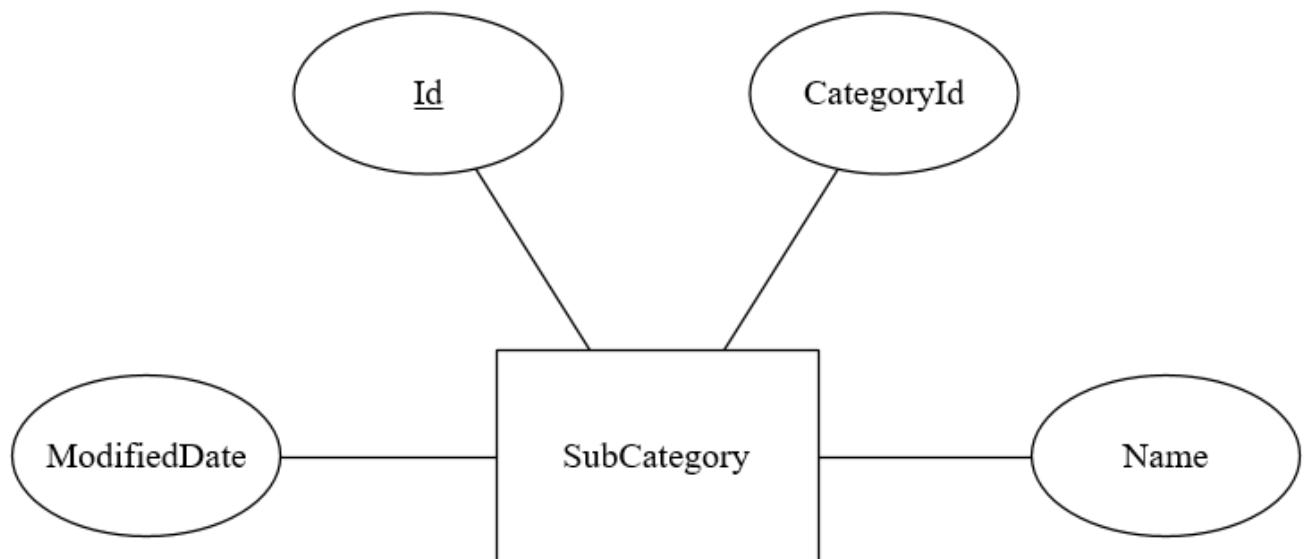
2.1. Category

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Project Group No : 1	

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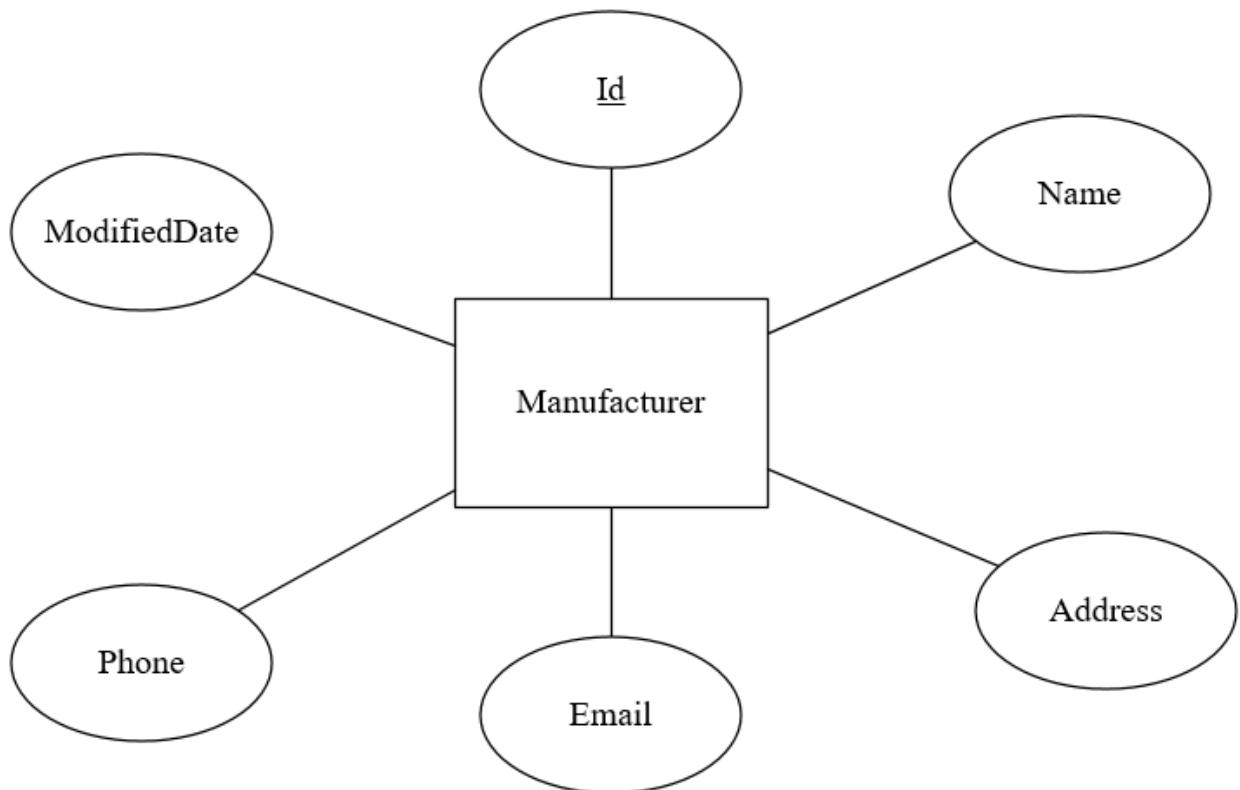
2.2. SubCategory



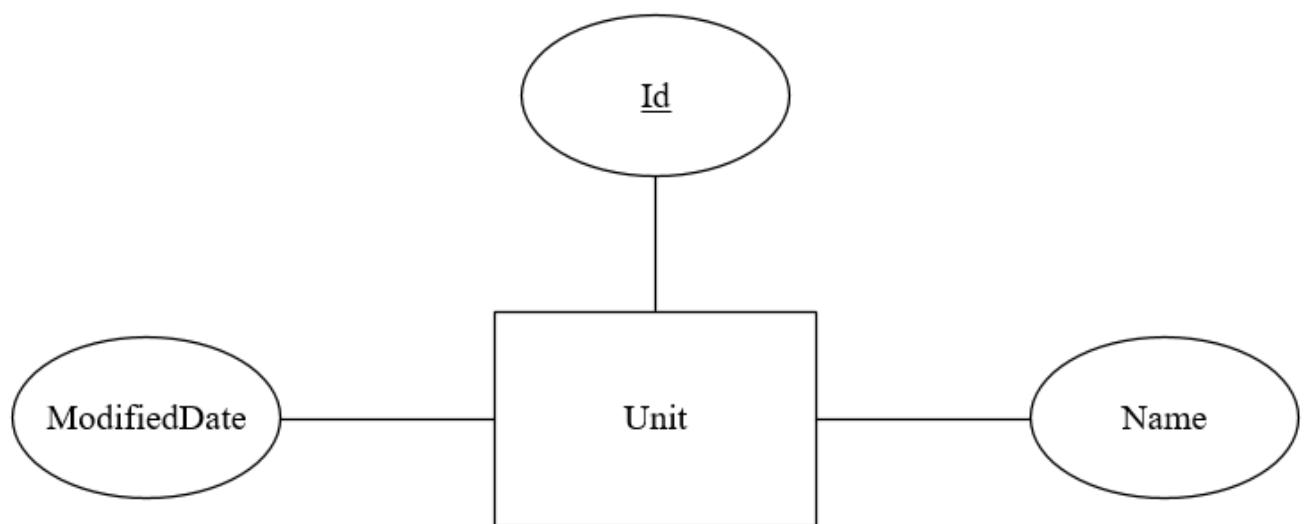
2.3. Manufacturer

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Project Group No : 1	

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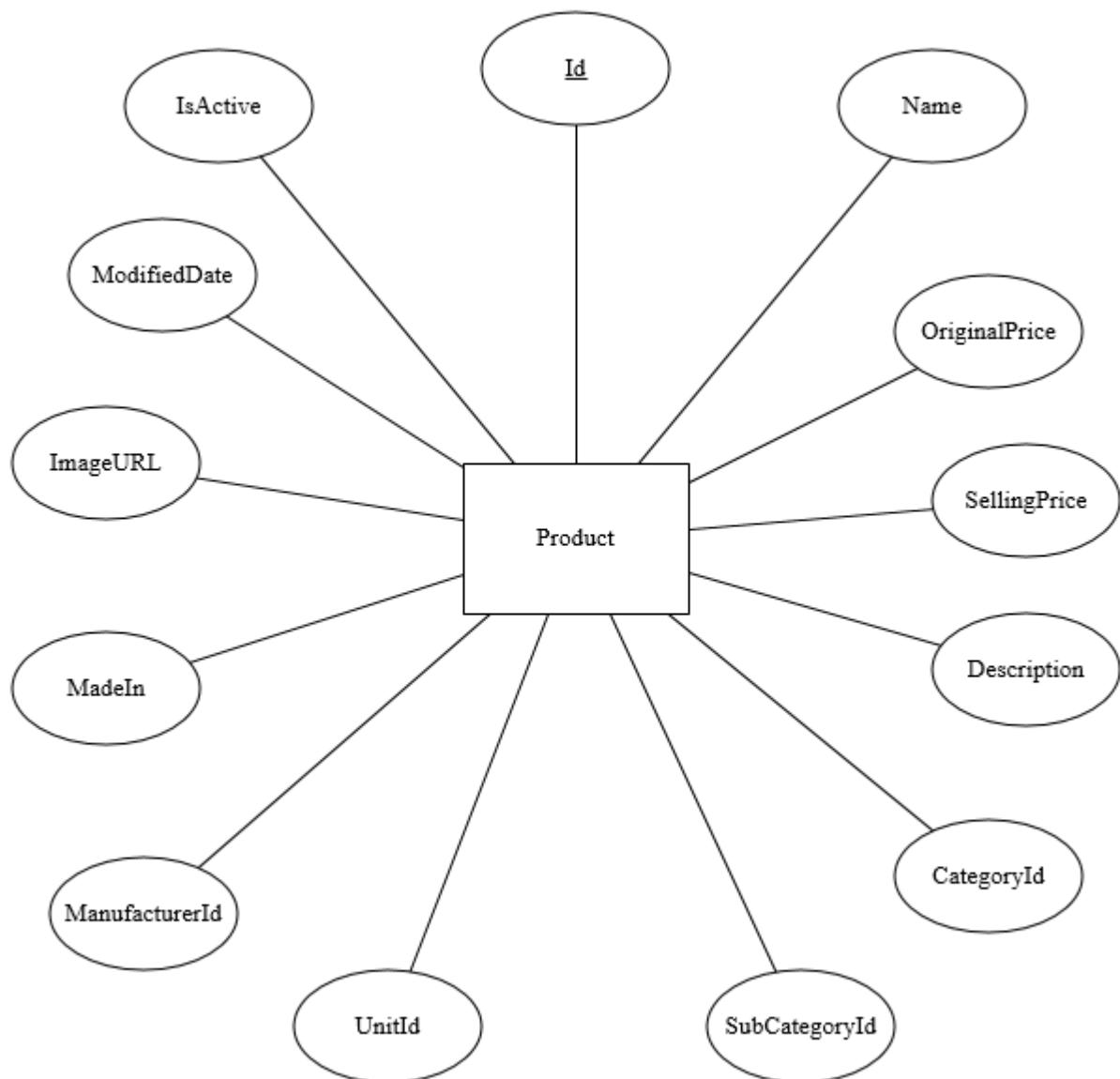
2.4. Unit



2.5. Product

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Project Group No : 1	

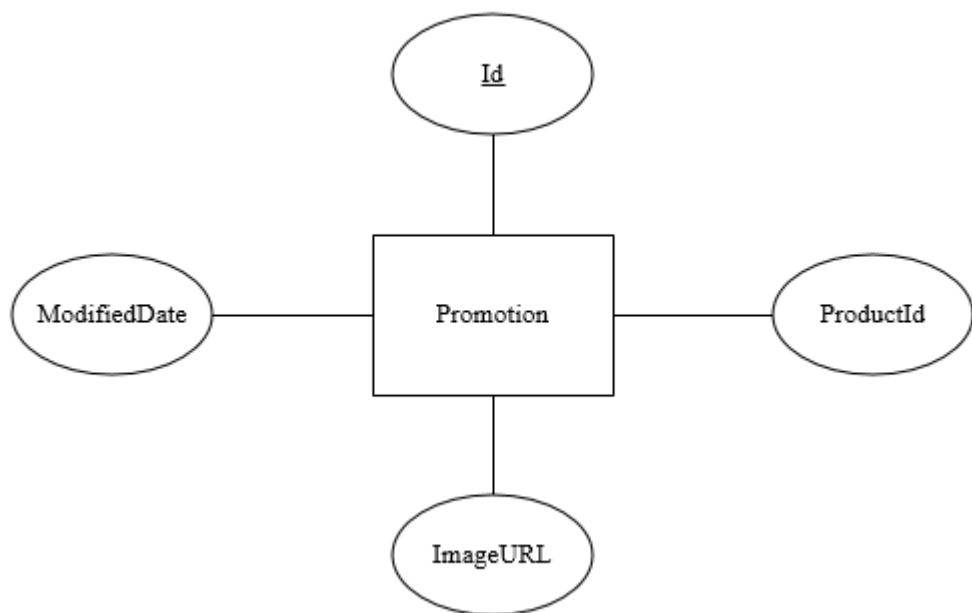
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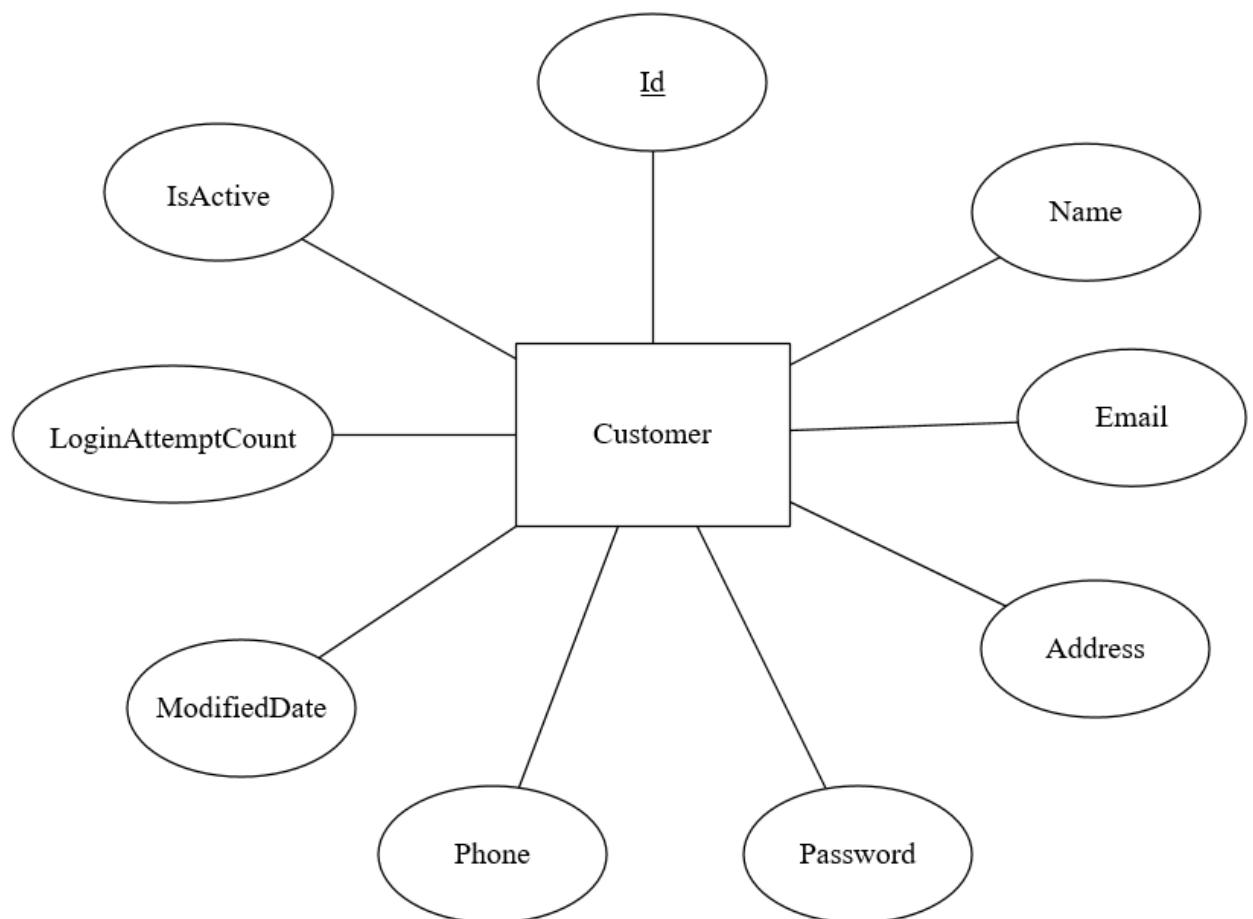
2.6. Promotion

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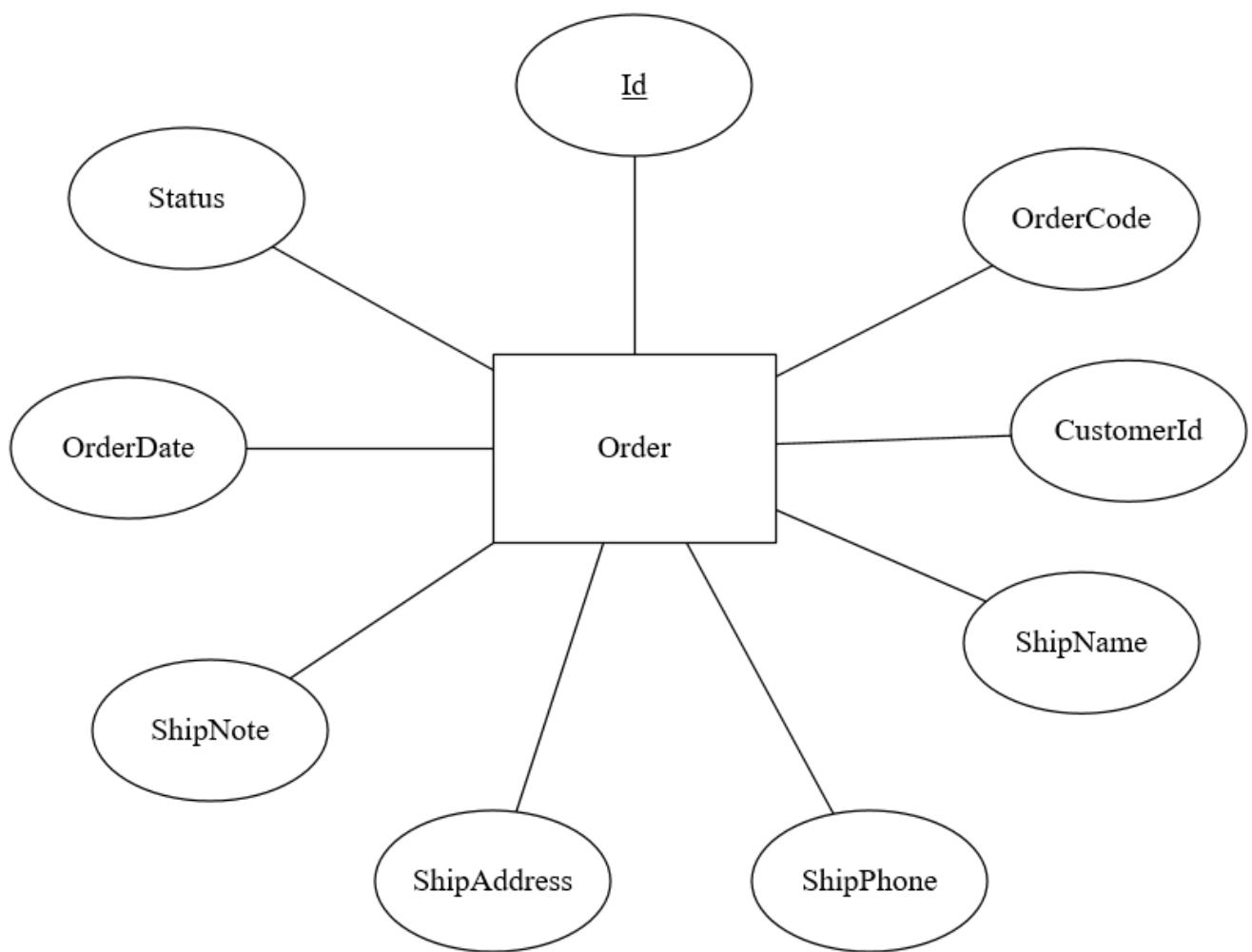
2.7. Customer



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Project Group No : 1	

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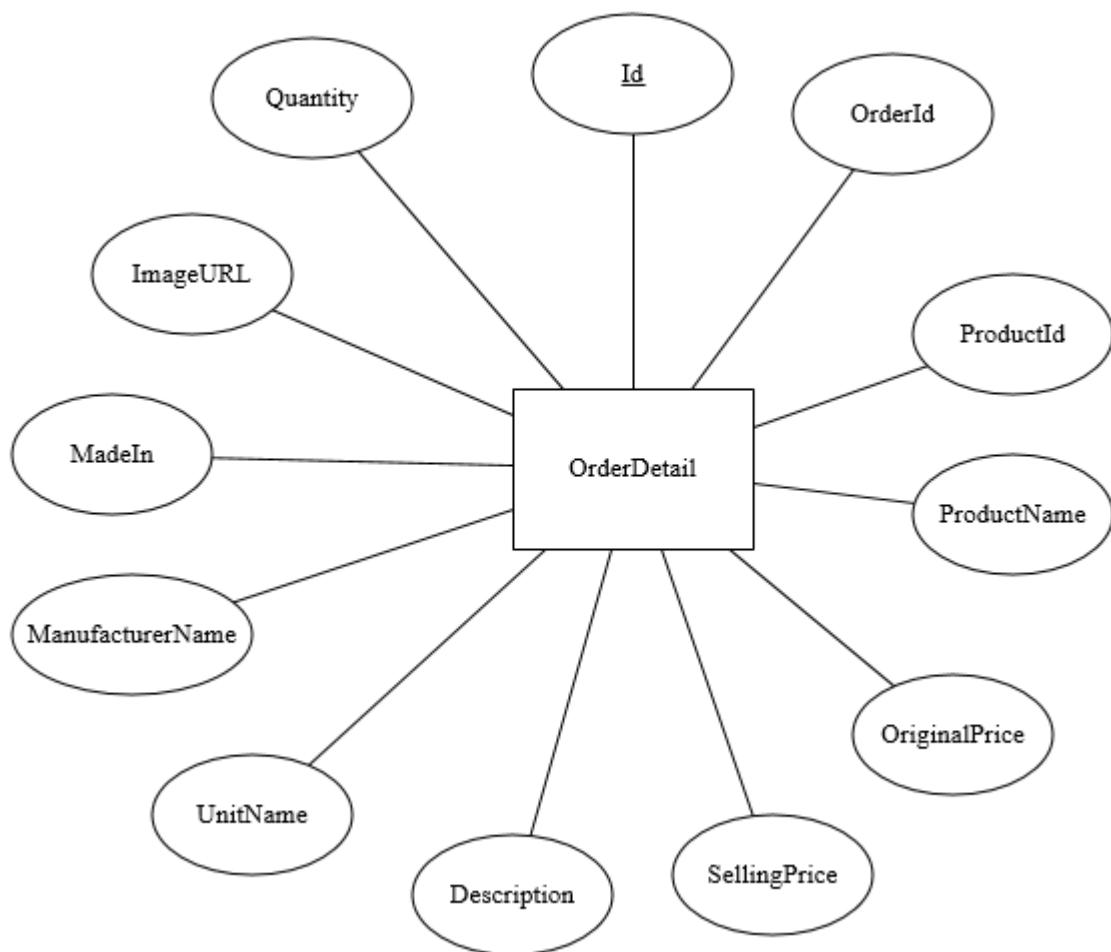
2.8. Order



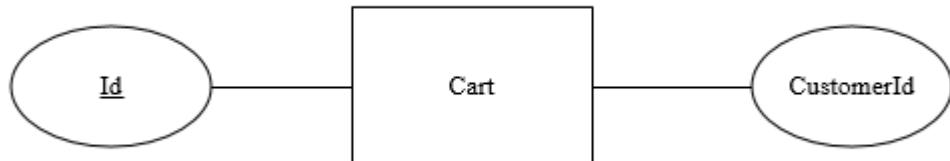
2.9. OrderDetail

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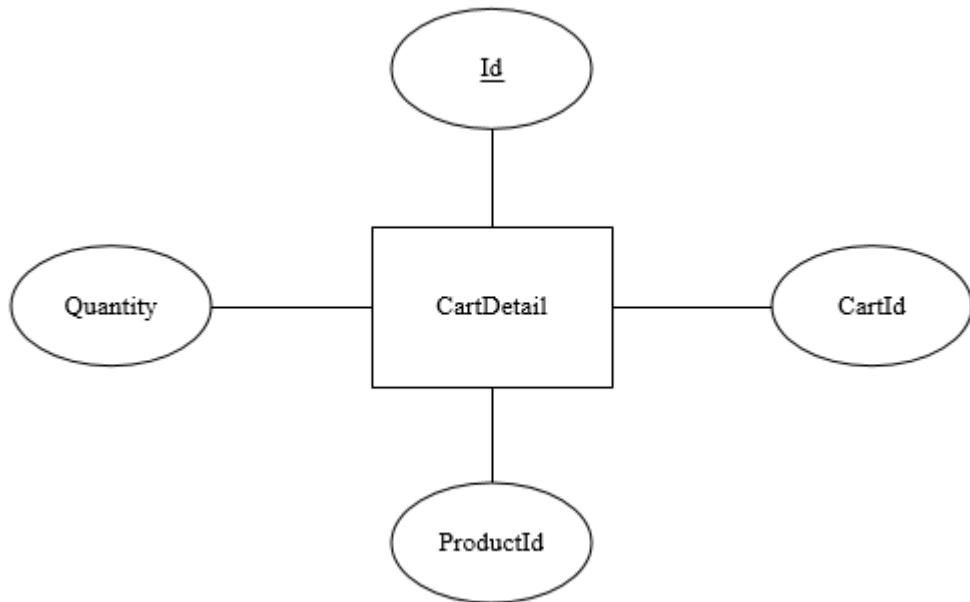
2.10. Cart



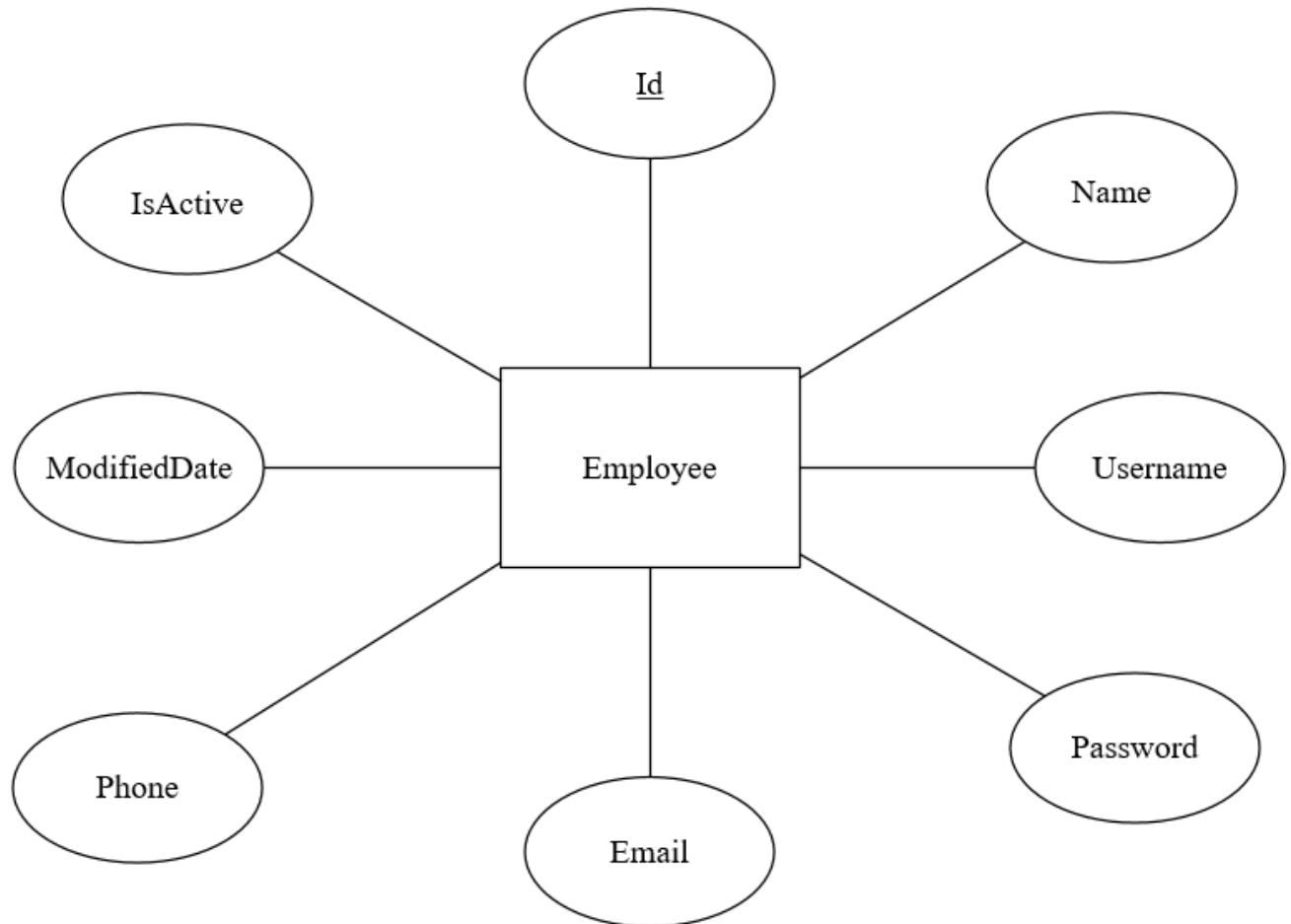
2.11. CartDetail

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2.12. Employee



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III. Task sheet Review 2

Project Ref. No:		Project Title: HKTT Store	Date of Preparation of Activity Plan			
No.	Task	Description	Start Date	Complete Date	Team Member Names	Status
01	Review 2	User case and sequence diagram for guest	27/05/2020	02/06/2020	Hoang Thanh Tai	Completed
02		User case and sequence diagram for member			Le Ngoc Dang Khoa	Completed
03		Entity Relationship Diagram				
04		User case and sequence diagram for Admin - Category - Manufacturer - Unit - Report			Ha Minh Tan	Completed
05		User case and sequence diagram for Admin - SubCategory - Product - Promotion - Customer - Order			Pham Huynh	Completed

	Prepare By: Group 1	Approved By:
Date: 01/06/2020	Team Leader Le Ngoc Dang Khoa	Mr. Ngô Phước Nguyên

Prepared by : All Members	Approved by : Mr. Ngo Phuoc Nguyen
Project Group No : 1	

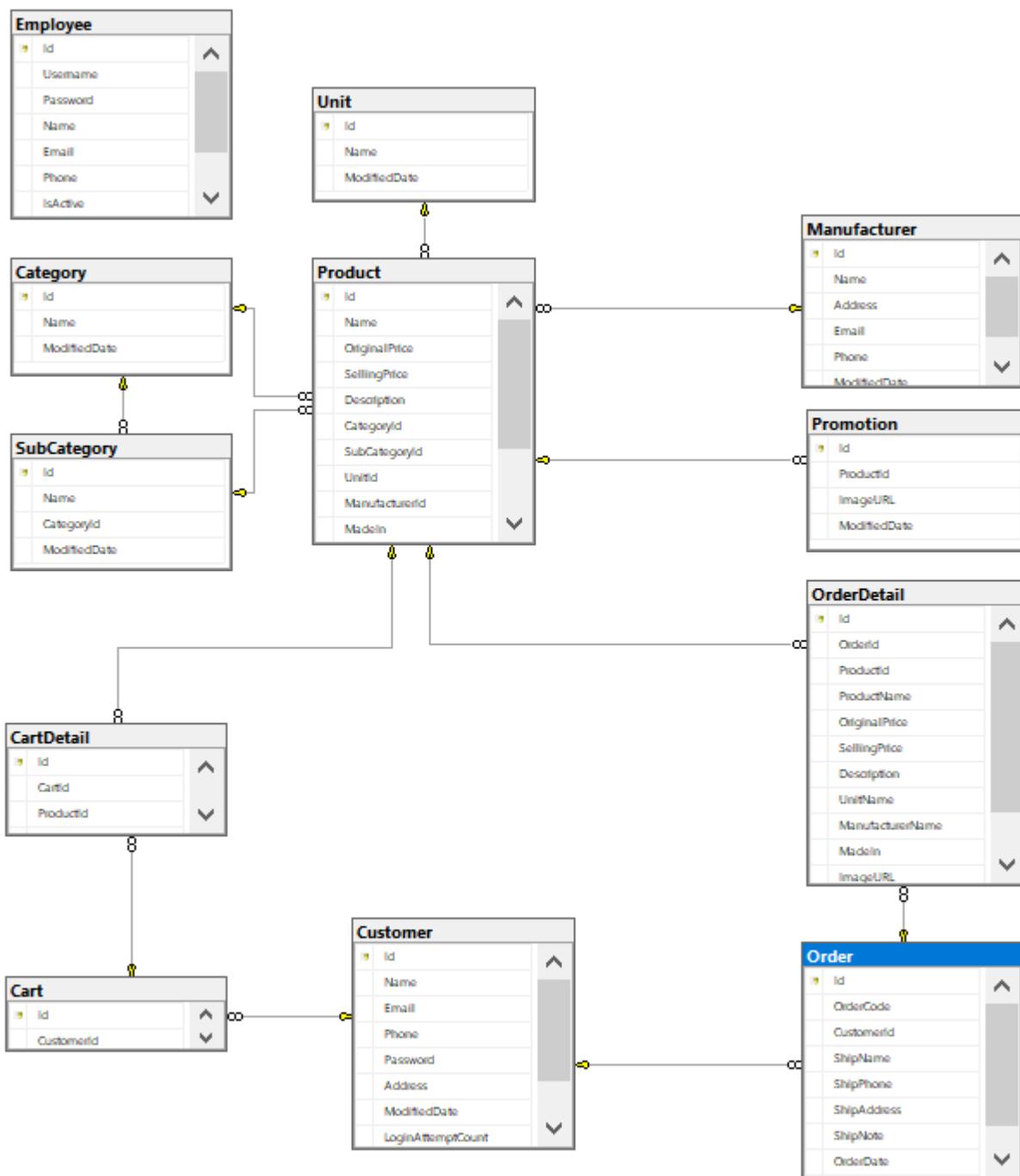
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REVIEW III

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Project Group No : 1	

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I. DATABASE RELATIONSHIP DIAGRAM



II. TABLE DEFINITION

1. Category

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
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Project Group No : 1						

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PK	Id	Int	No			Category Id
	Name	nvarchar(250)	No			Category Name
	ModifiedDate	Datetime	No			Lastest time the object was modified.

2. SubCategory

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			SubCategory Id
	Name	nvarchar(250)	No			SubCategory Name
FK	CategoryId	Int	No		Category(Id)	CategoryId that the SubCategory belong to.
	ModifiedDate	Datetime	No			Lastest time the object was modified.

3. Manufacturer

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Manufacturer Id
	Name	nvarchar(250)	No			Manufacturer Name
	ModifiedDate	Datetime	No			Lastest time the object was modified.

4. Unit

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Unit Id
	Name	nvarchar(250)	No			Unit Name
	ModifiedDate	Datetime	No			Lastest time the object was modified.

5. Product

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Product Id
	Name	nvarchar(250)	No			Product Name

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	OriginalPrice	float	No			Orginal price of product
	SellingPrice	float	No			Selling price of product
	Description	nvarchar(250)	No			Product's description
FK	CategoryId	Int	No		Category(Id)	CategoryId that the Product belong to.
FK	SubCategoryId	Int	No		SubCategory(Id)	SubCategoryId that the Product belong to.
FK	UnitId	Int	No		Unit(Id)	UnitId that the Product belong to.
FK	ManufacturerId	Int	No		Manufacturer(Id)	ManufacturerId that the Product belong to.
	MadeIn	nvarchar(250)	No			Where the product is made
	ImageURL	nvarchar(250)	No			Image link of product
	ModifiedDate	Datetime	No			Lastest time the object was modified.
	IsActive	Int	No			Define if the product is active for the customer to buy or not (1: Active, 0: Inactive)

6. Promotion

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Promotion Id
FK	ProductId	Int	No		Product(Id)	ProductId that need promotion
	ImageURL	nvarchar(250)	No			The image link of the promotion
	ModifiedDate	Datetime	No			Lastest time the object was modified.

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7. Customer

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Customer Id
	Name	nvarchar(250)	No			Customer Name
	Email	varchar(250)	No			Customer Email
	Phone	varchar(20)	No			Customer phone
	Password	varchar(250)	No			Customer password
	Address	nvarchar(250)	No			Customer address
	ModifiedDate	Datetime	No			Lastest time the object was modified.
	LoginAttemptCount	Int	No			Count how many time the customer had enter the password wrong. If the count = 3, the next time the customer enter the password wrong, system will lock the account by changing IsActive = 0
	IsActive	Int	No			Define if the customer is active or not (1: Active, 0: Inactive)

8. Order

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Order's Id
	OrderCode	varchar(50)	No			Order's Code that show to the customer
FK	CustomerId	Int	No		Customer(Id)	CustomerId
	ShipName	nvarchar(250)	No			Name of the receiver
	ShipPhone	nvarchar(250)	No			Phone of the receiver
	ShipAddress	nvarchar(250)	No			Address of the receiver
	ShipNote	nvarchar(250)	No	""		Order's note

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	OrderDate	Datetime	No			Order date of the order created
	Status	Int	No			Status of the order 1: New 2: Processing 3: Done

9. OrderDetail

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			OrderDetail Id
FK	OrderId	Int	No		Order(Id)	OrderId that the OrderDetail belong to
FK	ProductId	Int	No		Product(Id)	ProductId
	ProductName		No			Product's Name at the moment the product is ordered
	OriginalPrice		No			Product's OriginalPrice at the moment the product is ordered
	SellingPrice		No			Product's SellingPrice at the moment the product is ordered
	Description		No			Product's Description at the moment the product is ordered
	UnitName		No			Product's UnitName at the moment the product is ordered
	ManufacturerName		No			Product's ManufacturerName at the moment the product is ordered
	MadeIn		No			Product's MadeIn at the moment the product is ordered

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	ImageUrl		No			Product's ImageURL at the moment the product is ordered
	Quantity	Int	No			Order quantity

10. Cart

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Cart's Id
FK	CustomerId	Int	No		Customer(Id)	CustomerId

11. CartDetail

Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			OrderDetail Id
FK	CartId	Int	No		Cart(Id)	CartId that the CartDetail belong to
FK	ProductId	Int	No		Product(Id)	ProductId
	Quantity	Int	No			Order quantity

12. Employee

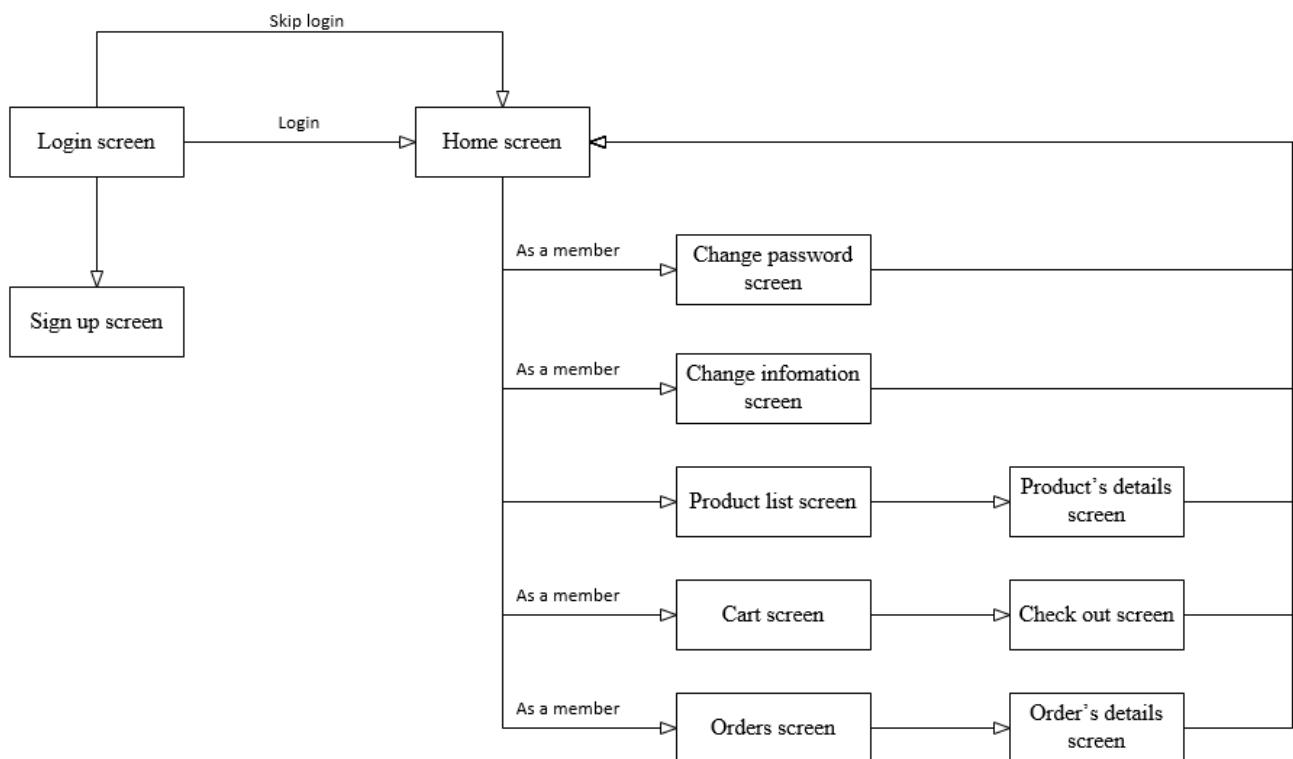
Key	Field Name	Data Type	Null	Default	Table-Field-Ref	Description
PK	Id	Int	No			Employee Id
	Username	varchar(50)	No			Employee username
	Password	varchar(250)	No			Customer password
	Name	nvarchar(250)	No			Customer Name
	Email	varchar(250)	No			Customer Email
	Phone	varchar(20)	No			Customer phone
	IsActive	Int	No			Define if the Employee is active or not (1: Active, 0: Inactive)
	ModifiedDate	Datetime	No			Lastest time the object was modified.

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III. SITE MAP

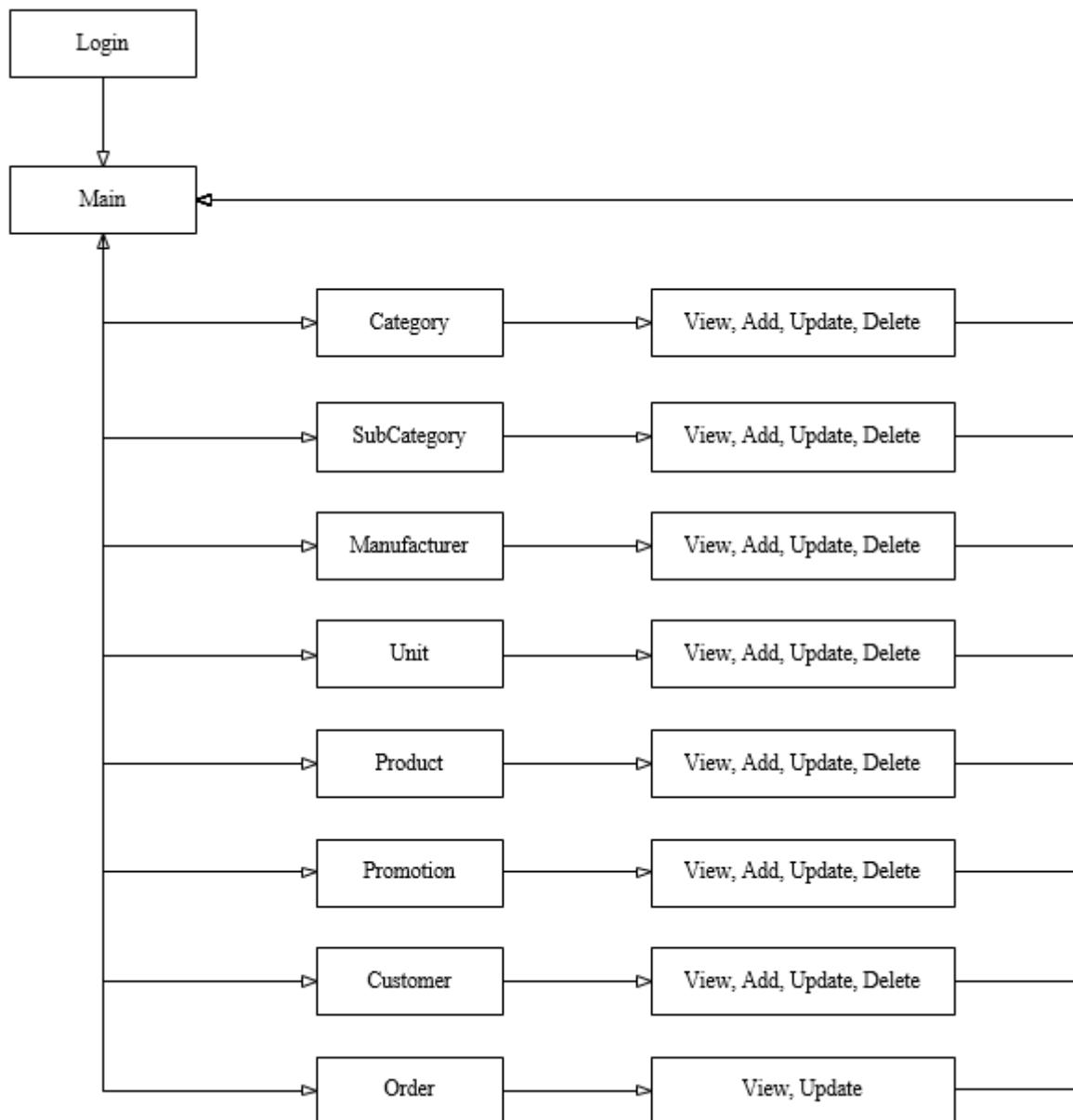
1. Customer's android application



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2. Admin's web site

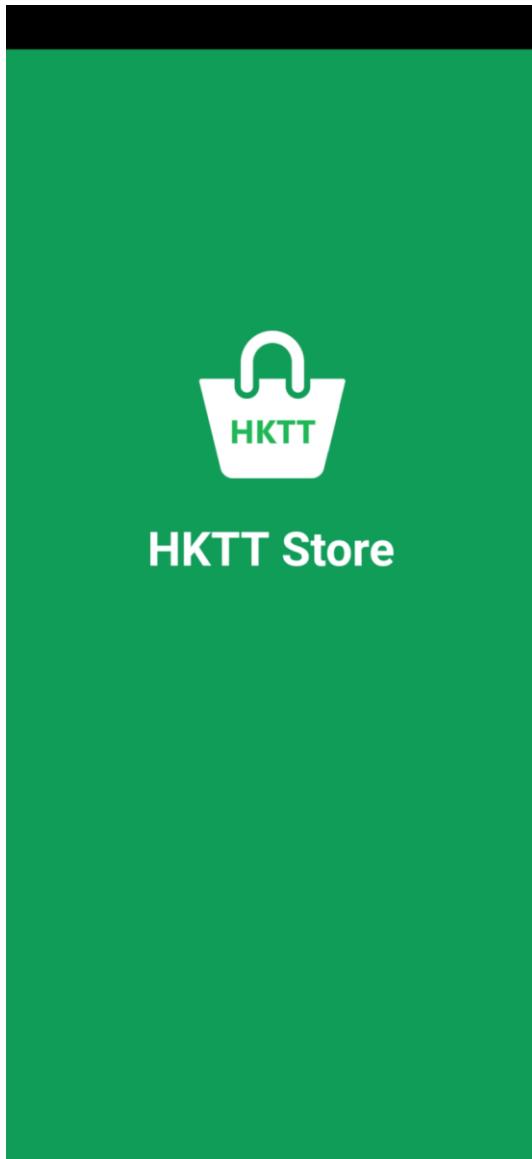


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IV. CUSTOMER GUI DESIGN

1. Splash screen



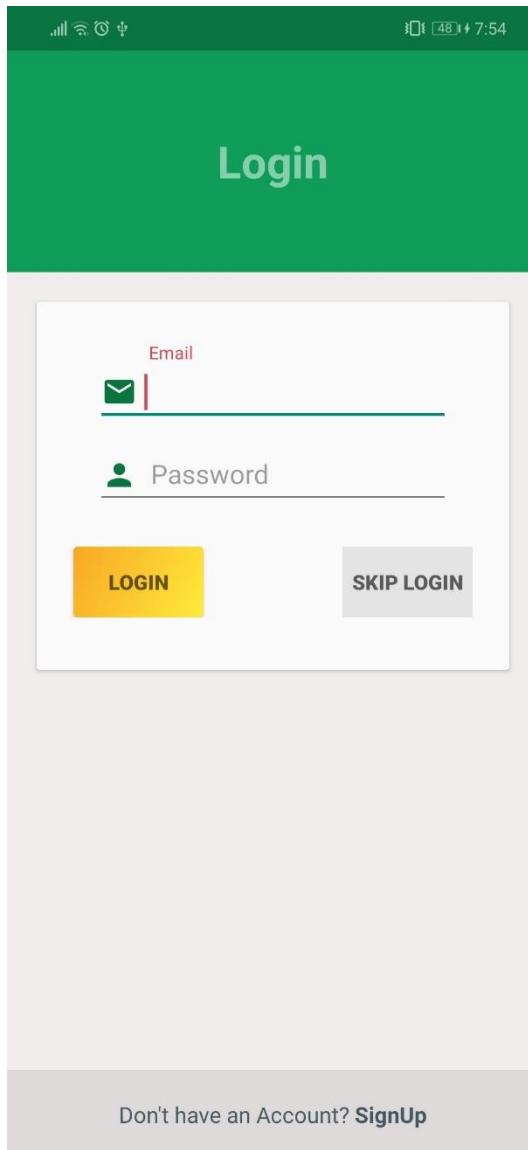
When the user open the application, a splash screen will show.

- If the user had login, after the animation the application will redirect to home screen.
- If the user enter as a new customer, after the animation the application will redirect to login screen.

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2. Login screen



No.	Name	Type	Validation	Event	Description
1	Email	EditText	Not null, email pattern		Customer's email to login
2	Password	EditText	Not null		Customer's password to login
3	Login	Button		Click	Check login and redirect to home screen
4	Skip login	Button		Click	The user can skip login and go to home screen, but they won't be able to add product to cart
5	Sign up	Button		Click	Go to sign up screen to register new account

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3. Sign up

The screenshot shows a mobile application's sign-up interface. At the top, there is a green header bar with the word "Register" in white. Below the header are six input fields arranged vertically. Each field has a small icon to its left: a person icon for "Name", an envelope icon for "Email", a phone icon for "Number", a house icon for "Address", a lock icon for "Password", and another lock icon for "Confirm Password". At the bottom of the form is a large, yellow rectangular button with the text "SIGN UP" in white capital letters.

Have an Account? [Login](#)

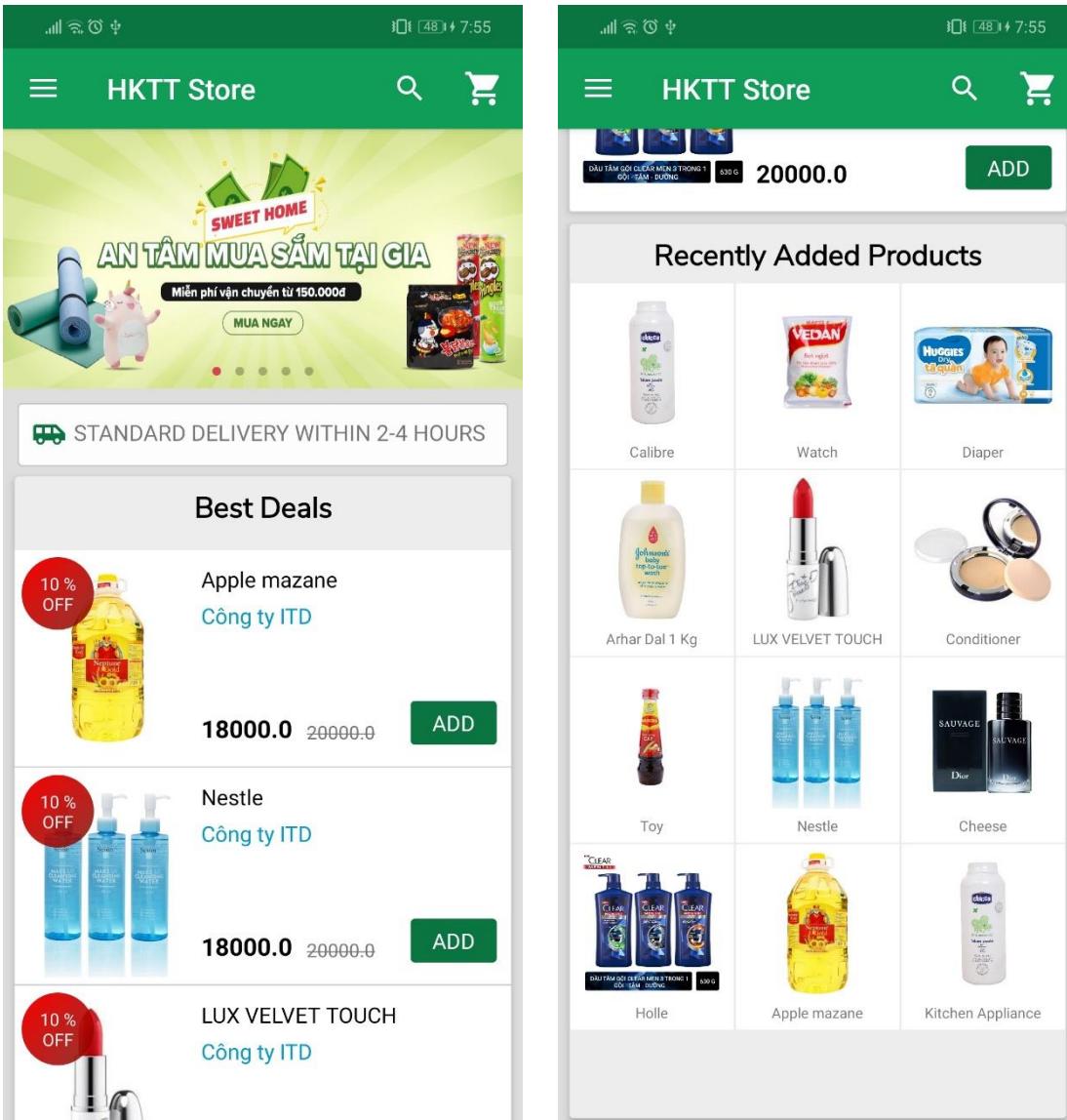
No.	Name	Type	Validation	Event	Description
1	Name	EditText	Not null		Customer's name
2	Email	EditText	Not null, email pattern		Customer's email, email is unique, can't be register with more than 1 customer
3	Phone	EditText	Not null, phone number pattern		Customer's phone number, phone is unique, can't be register with more than 1 customer
4	Address	EditText	Not null		Customer's address
5	Password	EditText	Not null		Customer's password
6	Confirm password	EditText	Not null		Confirm password must be the same as password

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7	Sign up	Button		Click	Check input and create new account if the input is valid
8	Login	Button		Click	Go back to login screen to login

4. Home screen



No.	Name	Type	Validation	Event	Description
1	Hamberger icon	Navigation drawer		Click	Click to open the navigation drawer
2	Search icon	Button		Click	Click to open search bar
3	Cart icon	Button		Click	Click to open customer cart. If the customer enter home as a member and there are items in cart, an

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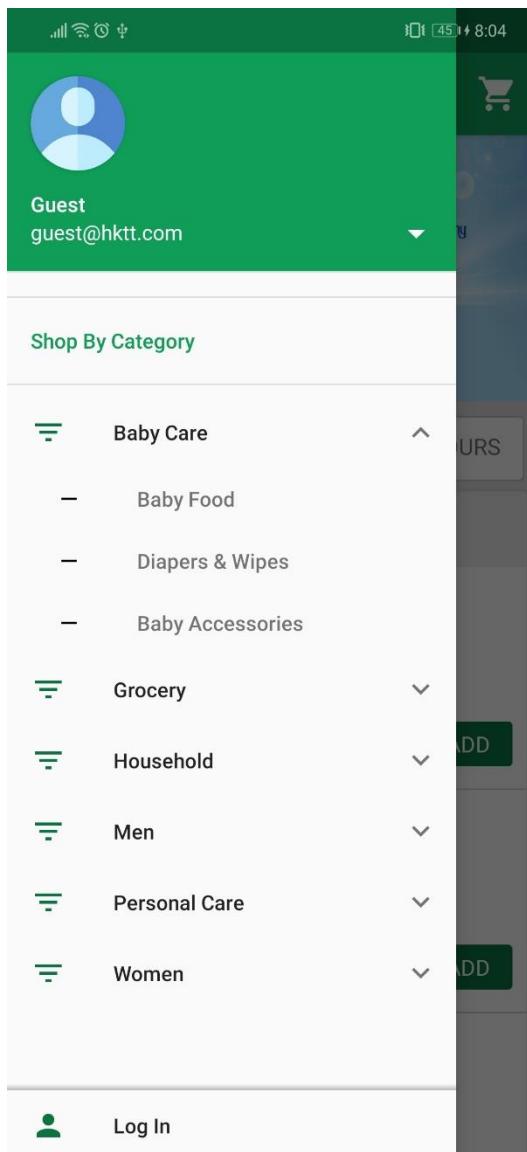
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					badge with cart count will show.
4	Promotion slider	Slider		Click	Slider with image of current promotion for a product. Click on an image with show details of product that the promotion belong to
5	Best deals	RecyclerView		Click	List of products having the most discount order by decending. When the user click on an item, product details screen will show.
6	Recently Added Product	GridView		Click	List of products that are recently added. When the user click on an item, product details screen will show.
7	Add	Button		Click	Add product to cart, update badge of cart icon

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5. Navigation Drawer when login as a guest

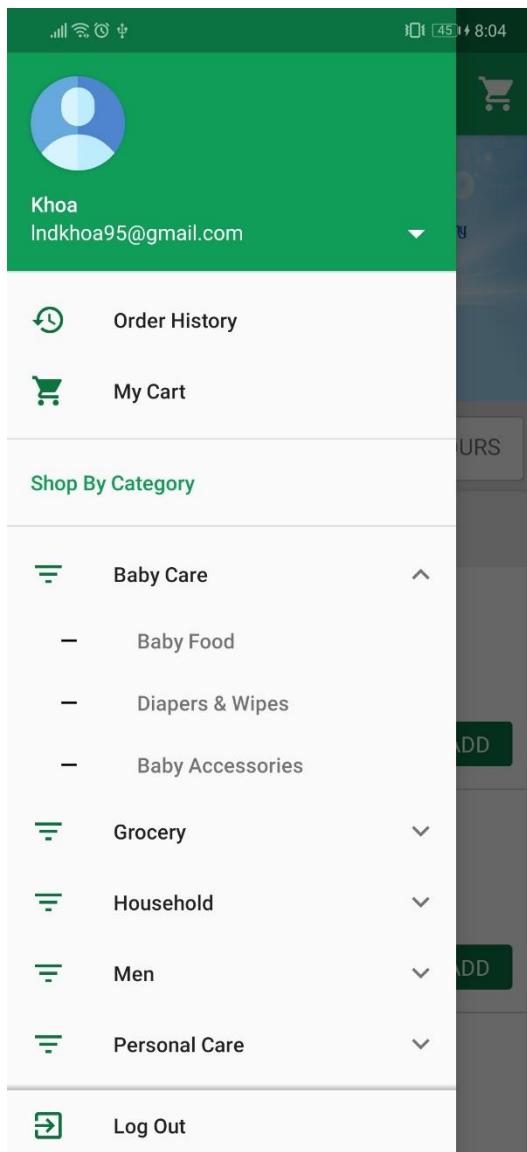


No.	Name	Type	Validation	Event	Description
1	Customer information	Profile		Click	Customer's information, click to see profile
2	Category list	ExpandableDrawerItem		Click	Click on a category will show sub category belong to that category
3	Sub category	SecondaryDrawerItem		Click	Click to go to result page with list of product belong to the sub category selected
4	Login	Button		Click	Go to login screen

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6. Navigation Drawer when login as a member



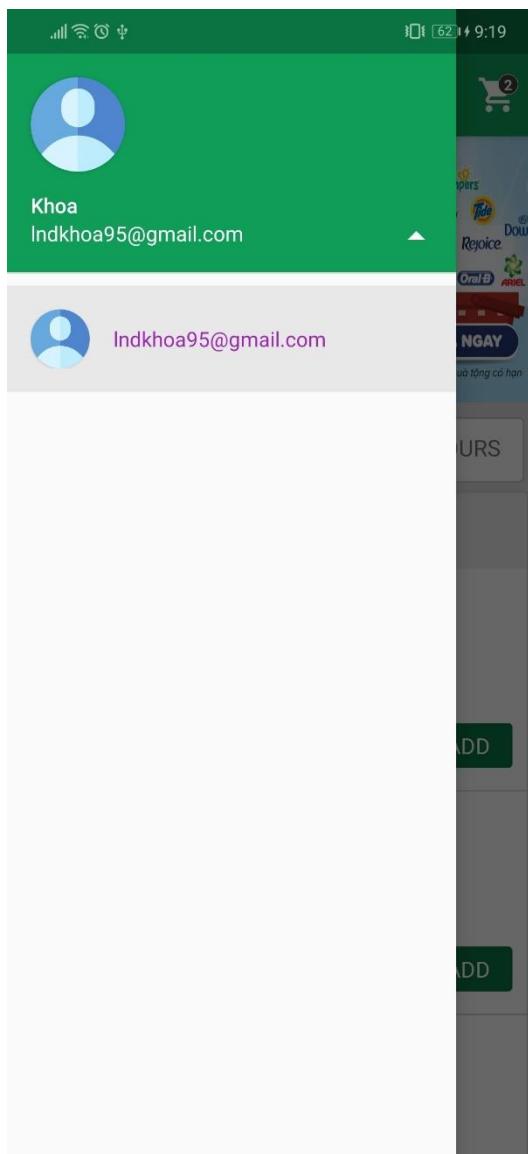
No.	Name	Type	Validation	Event	Description
1	Customer information	Profile		Click	Customer's information, click to see profile
2	Order history	PrimaryDrawerItem		Click	If the user enter home as a member, order history will show. Click to check order history.
3	My Cart	PrimaryDrawerItem		Click	If the user enter home as a member, My cart will show. Click to check cart list
4	Category list	ExpandableDrawerItem		Click	Click on a category will show sub category

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					belong to that category
5	Sub category	SecondaryDrawerItem		Click	Click to go to result page with list of product belong to the sub category selected
6	Logout	Button		Click	Go to logout and back to login screen

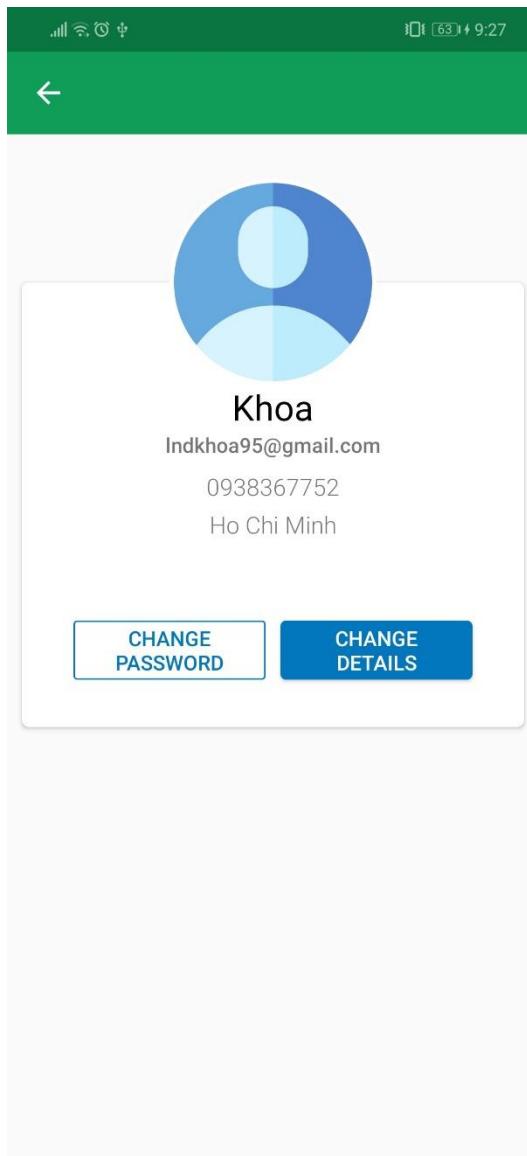
7. Profile



No.	Name	Type	Validation	Event	Description
1	Customer information	Profile		Click	Customer's profile, click to see account's options
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8. Account options

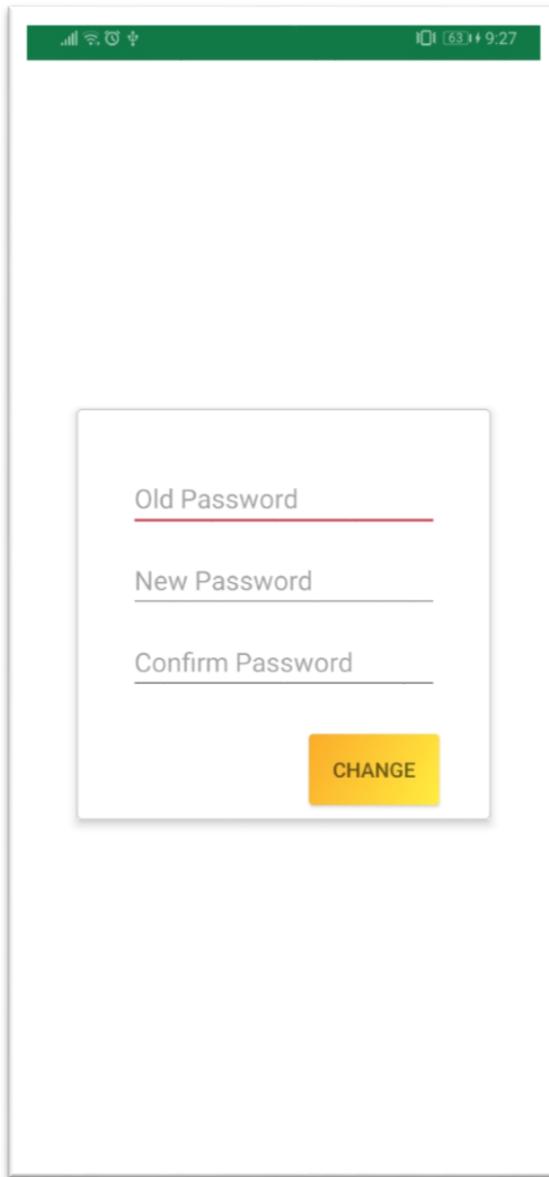


No.	Name	Type	Validation	Event	Description
1	Customer information	TextView			Customer's information
2	Change password	Button		Click	Click to go to change password screen
3	Change details	Button		Click	Click to go to change update information screen

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9. Change password

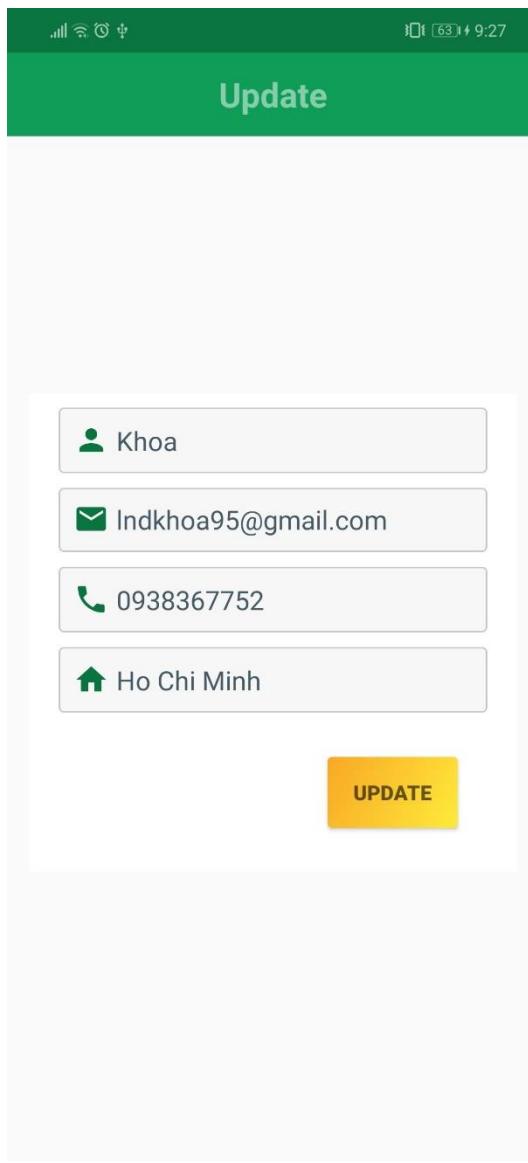


No.	Name	Type	Validation	Event	Description
1	Old password	EditText	Not null		Customer's password
2	New password	EditText	Not null		Customer's new password
3	Confirm password	EditText	Not null, phone number pattern		Confirm password must be the same as new password
4	Change	Button		Click	Check input and update customer's password

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10. Update information

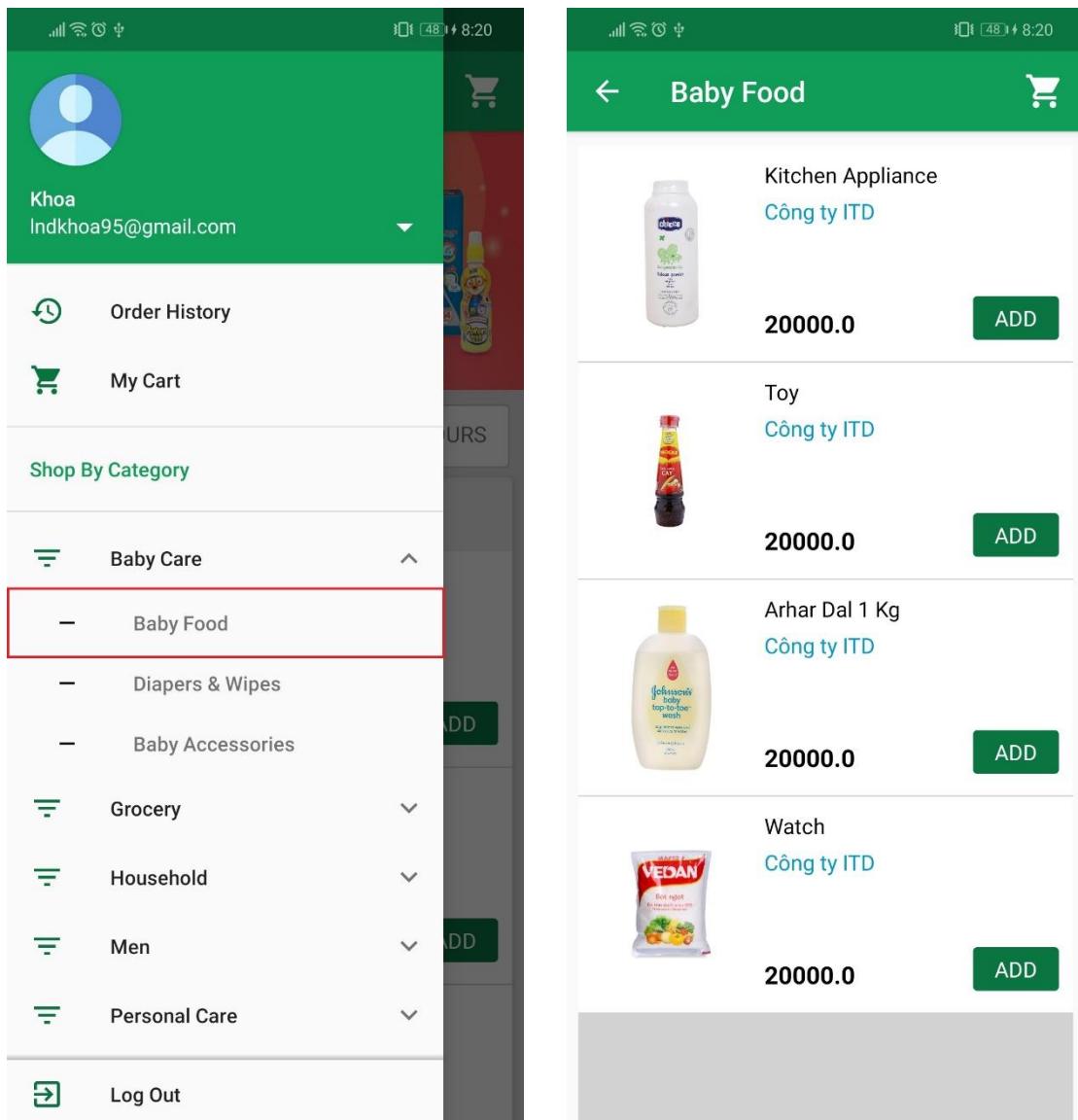


No.	Name	Type	Validation	Event	Description
1	Name	EditText	Not null		Customer's name
2	Email	EditText	Not null, email pattern		Customer's email, email is unique, can't be register with more than 1 customer
3	Phone	EditText	Not null, phone number pattern		Customer's phone number, phone is unique, can't be register with more than 1 customer
4	Address	EditText	Not null		Customer's address
5	Update	Button		Click	Check input and update customer's information

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11. Product list filtered by sub category

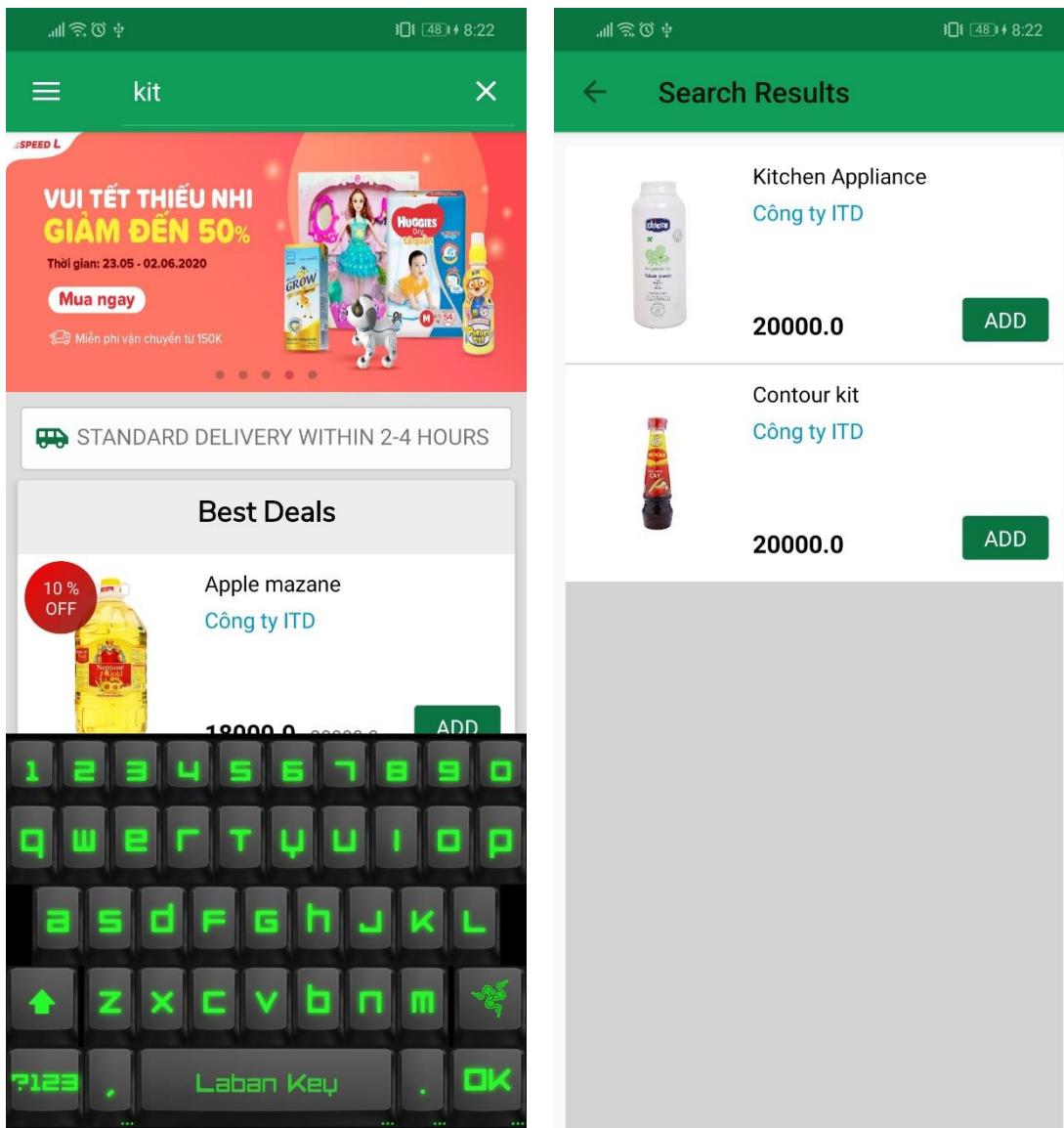


No.	Name	Type	Validation	Event	Description
1	Sub category	SecondaryDrawerItem		Click	Sub category's name. Click to see all products of that sub category
2	Product list	RecyclerView		Click	List of products belong to selected sub category. Click on any product will show product details screen
3	Add	Button		Click	Add product to cart

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12. Search by product name

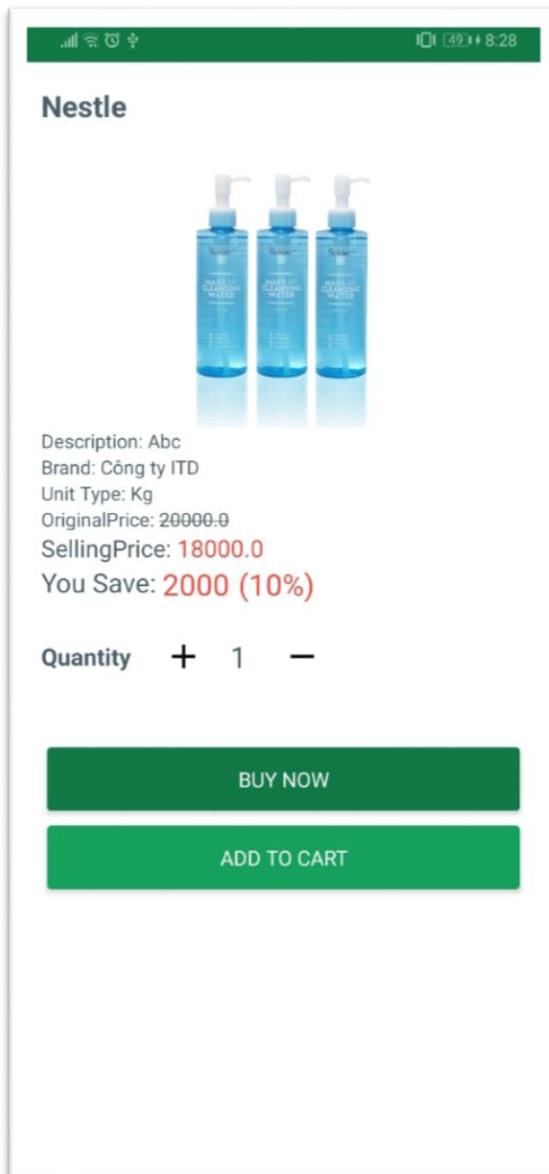


No.	Name	Type	Validation	Event	Description
1	Search	Search bar		Click	Enter text to search and click ok.
2	Product list	RecyclerView		Click	List of products has name contains search text. Click on any product will show product details screen
3	Add	Button		Click	Add product to cart

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13. Product's details

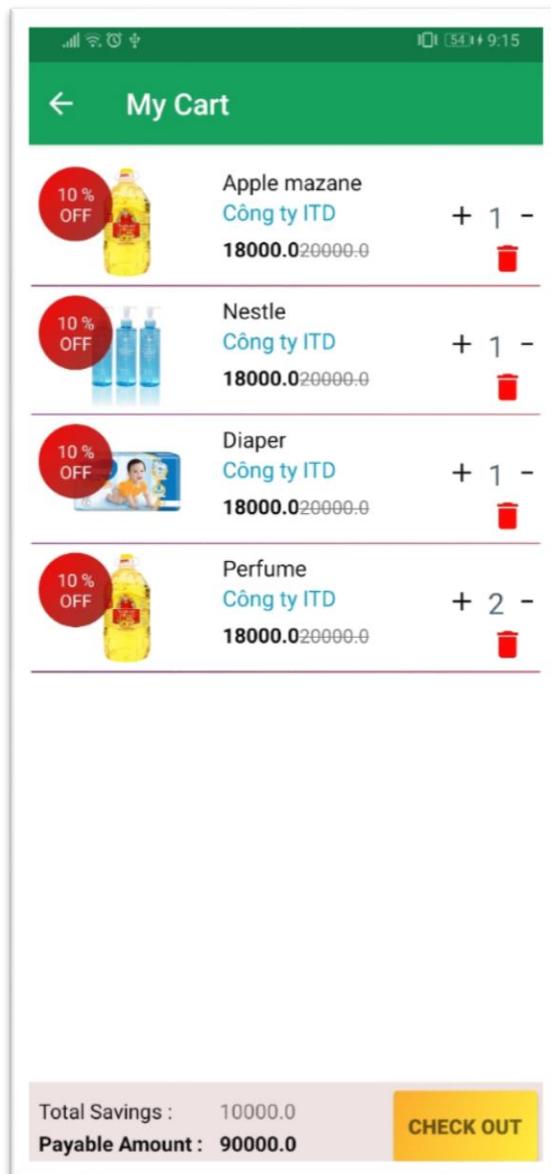


No.	Name	Type	Validation	Event	Description
1	Product info	TextView			Product's details
2	Buy now	Button		Click	Add product to cart with selected quantity and redirect to cart screen
3	Add to cart	Button		Click	Add product to cart with selected quantity

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14. My cart



No.	Name	Type	Validation	Event	Description
1	Product list	RecyclerView			List of product in cart
2	Plus icon	Button		Click	Increase product's quantity by 1
3	Minus icon	Button		Click	Decrease product's quantity by 1
4	Trash can icon	Button		Click	Remove product from cart
5	Check out	Button		Click	Go to check out screen

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15. Check out

The application interface for 'Check Out' is shown in two side-by-side screenshots. Both screens have a green header bar with a back arrow and the text 'Check Out'. Below the header are four input fields: 'Receiver's Name', 'Receiver's Phone', 'Receiver's Address', and 'Note'. Each field has a placeholder icon and a red 'Use customer info' switch. The 'Receiver's Name' field shows 'Khoa Lê Ngọc Đăng' with the switch turned on. The 'Note' field shows 'HHHHA'. Below these fields is a list of four products:

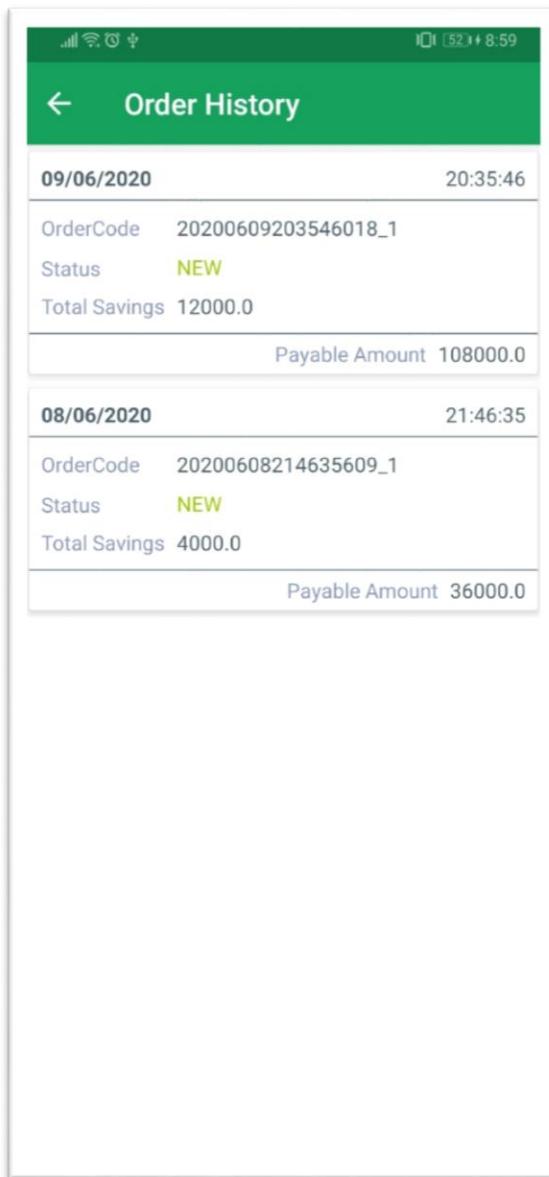
- Apple mazane** (Công ty ITD) Qty: 1
Original price: 20000.00, Sale price: 18000.00 (10% OFF)
- Nestle** (Công ty ITD) Qty: 1
Original price: 20000.00, Sale price: 18000.00 (10% OFF)
- Diaper** (Công ty ITD) Qty: 1
Original price: 20000.00, Sale price: 18000.00 (10% OFF)
- Perfume** (Công ty ITD) Qty: 2
Original price: 20000.00, Sale price: 18000.00 (10% OFF)

At the bottom of each screen, there is a summary: 'Total Savings : 10000.00' and 'Payable Amount : 90000.00', followed by a large yellow 'PLACE ORDER' button.

No.	Name	Type	Validation	Event	Description
1	Use customer info	Switch		OnChecked	Checked switch to use customer's information when sign up as the receiver information
2	Receiver's name	EditText	Not null		Receiver's name
3	Receiver's phone	EditText	Not null		Receiver's phone
4	Receiver's address	EditText	Not null		Receiver's address
5	Note	EditText	Not null		Order's note
6	Product list	RecyclerView			List of product in cart
7	Place order	Button		Click	Send order request and redirect to home screen
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16. Order history



No.	Name	Type	Validation	Event	Description
1	Order list	RecylcerView		Click	List of order of member. Click to see order's details

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17. Order's details

Order Details

Product	Supplier	Qty
Apple mazane	Công ty ITD	3
Nestle	Công ty ITD	1
Diaper	Công ty ITD	1
LUX VELVET TOUCH	Công ty ITD	1

Total Savings : 12000.0
Payable Amount : 108000.0

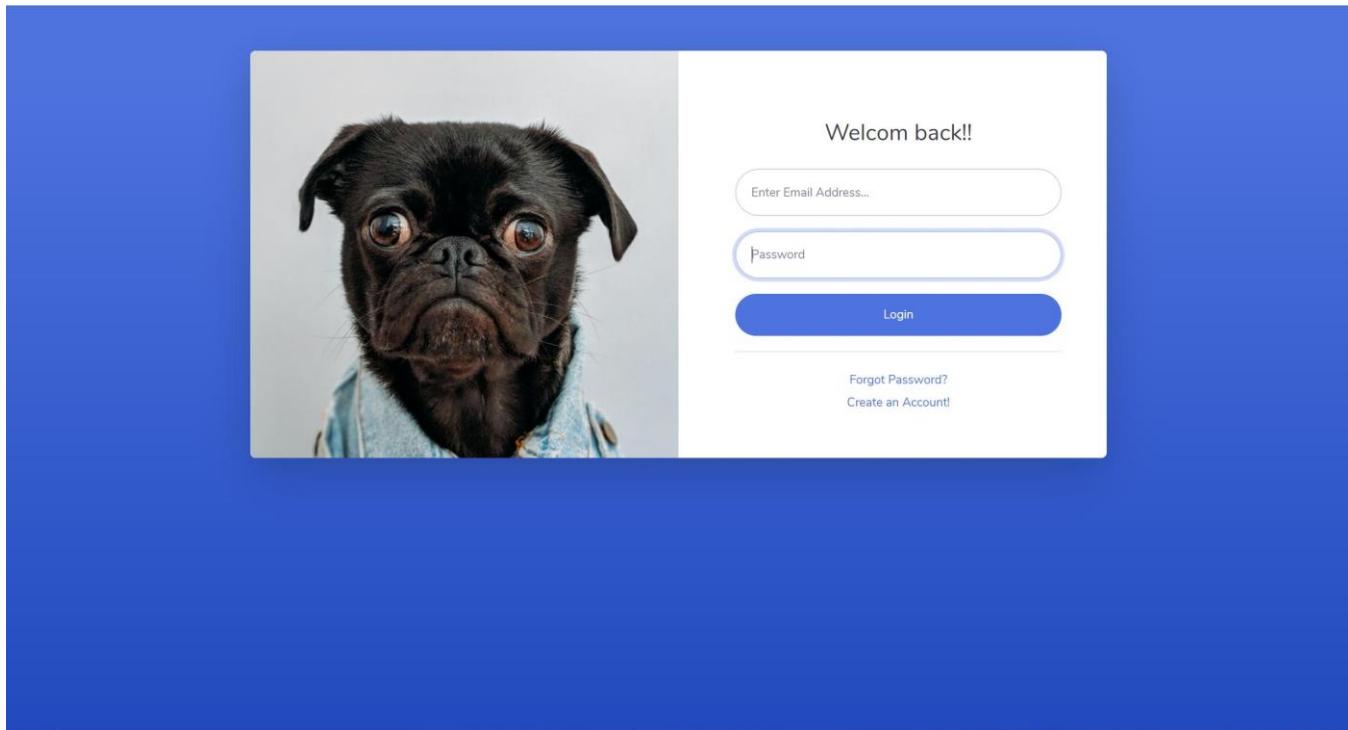
No.	Name	Type	Validation	Event	Description
1	Product list	RecylcerView			List of product of order

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V. ADMIN GUI DESIGN

1. Login page

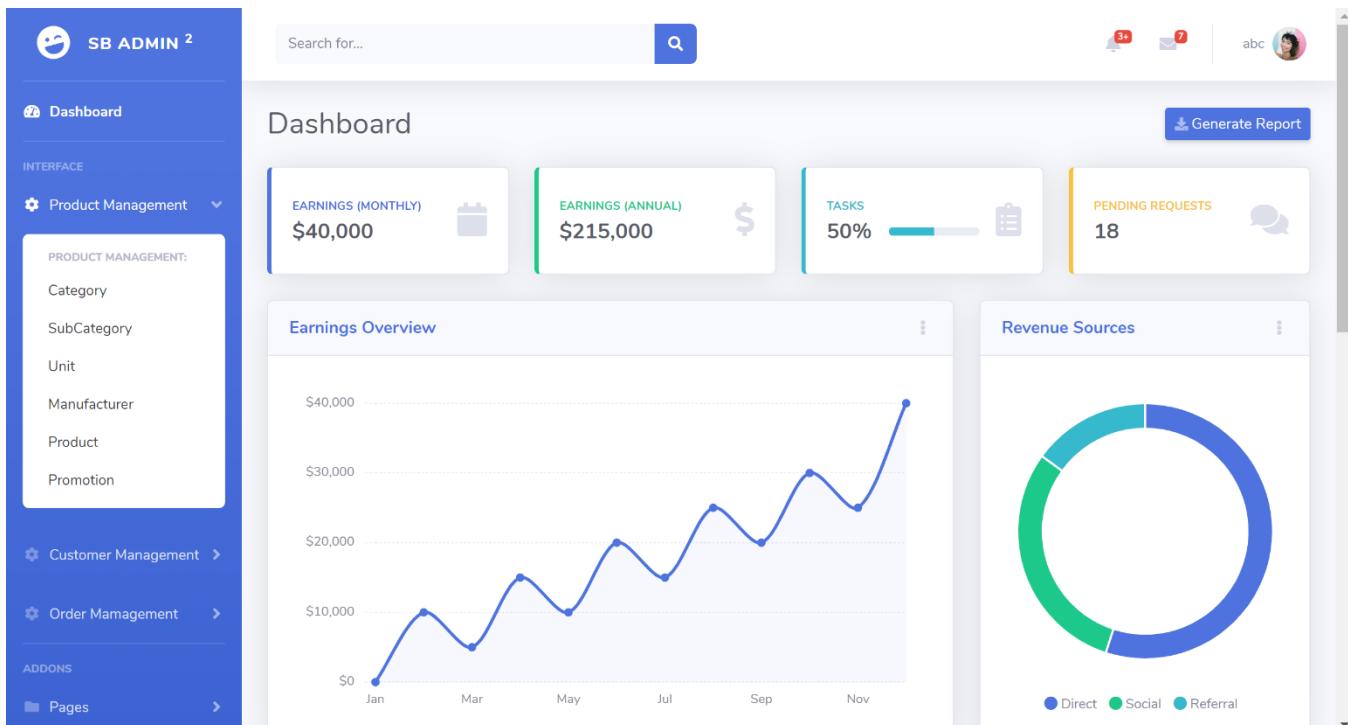


No.	Name	Type	Validation	Event	Description
1	Email address	EditText	Not null		Email to login
2	Password	EditText	Not null		Password to login
3	Login	Button		Click	If success, go to Dashboard page else show error

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2. Dashboard



No.	Name	Type	Validation	Event	Description
1	Menu tab			Click	Admin choose to manage
2	Search	Button	Not null	Click	Admin click to search

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3. Category page

The screenshot shows a dashboard interface with a sidebar on the left containing navigation links for Product Management, Customer Management, Order Management, Pages, Charts, and Tables. The main area is titled 'Insert Category' and displays a table titled 'DataTables Category'. The table has columns: Category ID, Category Name, Date, and Action (Delete, Update). The data in the table is as follows:

Category ID	Category Name	Date	Action
1	Baby Care	01-05-2020 00:00:00	Delete Update
2	Personal Care	01-05-2020 00:00:00	Delete Update
3	Grocery	01-05-2020 00:00:00	Delete Update
4	Household	01-05-2020 00:00:00	Delete Update
5	Women	01-05-2020 00:00:00	Delete Update
6	Men	01-05-2020 00:00:00	Delete Update

At the bottom, it says 'Showing 1 to 6 of 6 entries' and has buttons for Previous, Next, and a page number '1'.

No.	Name	Type	Validation	Event	Description
1	Category List	Table			Category list
2	Search	EditText			Admin type to search
3	Delete	Button		Click	Admin click to delete category (after confirm dialog)
4	Update	Button		Click	Admin click to go to Update category page
5	Previous	Button		Click	Go before entries
6	Next	Button		Click	Go next entries

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4. Category insert page

The screenshot shows a web-based administration interface. On the left, there's a vertical sidebar with a blue header 'SB ADMIN 2'. Below it, under 'INTERFACE', are 'Dashboard', 'Product Management' (which is expanded to show 'Category', 'SubCategory', 'Unit', 'Manufacturer', 'Product', 'Promotion'), 'Customer Management', 'Order Management', and 'ADDONS'. Under 'ADDONS', there's a 'Pages' section. At the top right, there's a search bar with placeholder text 'Search for...', a magnifying glass icon, and a notification badge with '3+'. To the right of the sidebar, the main content area has a heading 'Insert New Caterogy!!' and a text input field with placeholder 'Enter Name Caterogy...'. Below the input field is a large blue 'Insert' button. The overall theme is a clean, modern design with a light gray background.

No.	Name	Type	Validation	Event	Description
1	Category name	EditText	Not null		Admin input category name to insert
2	Insert	Button		Click	After validate category name admin click this button to insert

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4. Category update page

The screenshot shows a left sidebar with navigation options like Dashboard, INTERFACE, Product Management (selected), Customer Management, Order Management, ADDONS, and Pages. A central search bar and notification icons are at the top. A modal window titled 'Detail Update Caterogy!!' contains a single input field with the value 'Baby Care' and a blue 'Update' button below it.

No.	Name	Type	Validation	Event	Description
1	Category name	EditText	Not null		Admin input category name to update
2	Update	Button		Click	After validate category name admin click this button to update

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5. Subcategory page

The screenshot shows a web-based application interface for managing subcategories. On the left, there is a sidebar with navigation links for Dashboard, INTERFACE, Product Management (Category, SubCategory, Unit, Manufacturer, Product, Promotion), Customer Management, Order Management, ADDONS (Pages, Charts), and Help. The main content area has a title "Insert SubCategory" and a subtitle "DataTables SubCategory". It includes a search bar, a table with 10 entries, and a "Search:" input field. The table columns are SubCat ID, SubCat Name, SubCat Category, Date, and Action. Each row contains a "Delete" button in a green box and an "Update" button in a red box.

SubCat ID	SubCat Name	SubCat Category	Date	Action
1	Baby Food	Baby Care	01-05-2020 00:00:00	Delete Update
2	Diapers & Wipes	Baby Care	01-05-2020 00:00:00	Delete Update
3	Baby Accessories	Baby Care	01-05-2020 00:00:00	Delete Update
4	Skin Care	Personal Care	01-05-2020 00:00:00	Delete Update
5	Hair Care	Personal Care	01-05-2020 00:00:00	Delete Update
6	Oral Care	Personal Care	01-05-2020 00:00:00	Delete Update
7	Bath, Face & Hand Wash	Personal Care	01-05-2020 00:00:00	Delete Update

No.	Name	Type	Validation	Event	Description
1	Subcategory List	Table			Subcategory list
2	Search	EditText			Admin type to search
3	Insert SubCategory	Button		Click	Admin click to go to insert page
4	Delete	Button		Click	Admin click to delete subcategory (after confirm dialog)
5	Update	Button		Click	Admin click to go to Update subcategory page

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6. Subcategory insert page

Search for... 🔍

3+ 7 abc

Insert New SubCaterogy!!

Enter Name SubCategory...

Select Category

Insert

No.	Name	Type	Validation	Event	Description
1	Subcategory name	EditText	Not null		Admin input category name to insert
2	Category name	Combobox	Not null		Admin must insert category before insert subcategory
3	Insert	Button		Click	After validate input, admin click this button to insert

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7. Subcategory update page

The screenshot shows a left sidebar with a navigation menu. Under 'INTERFACE', 'Product Management' is selected, which is expanded to show 'Category', 'SubCategory', 'Unit', 'Manufacturer', 'Product', and 'Promotion'. On the right, a main content area has a header 'Detail Update SubCaterogy!!'. Below it, there's a dropdown menu with 'Baby Food' selected. A large blue button at the bottom is labeled 'Update'.

No.	Name	Type	Validation	Event	Description
1	Subcategory	EditText	Not null		Admin input category name to update
2	Category name	Combobox	Not null		Category name
3	Update	Button		Click	After validate category name admin click this button to update

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8. Unit page

The screenshot shows the SB Admin 2 interface. On the left sidebar, under 'Product Management', the 'Unit' option is selected. The main content area is titled 'DataTables Unit' and contains a table with the following data:

Unit ID	Unit Name	Date	Action
1	Kg	01-05-2020 00:00:00	<button>Delete</button> <button>Update</button>
Unit ID	Unit Name	Date	Action

Below the table, it says 'Showing 1 to 1 of 1 entries'. The top right of the interface shows a search bar, a notification icon (3+), an email icon (7), and a user profile icon (abc).

No.	Name	Type	Validation	Event	Description
1	Unit List	Table			Unit list
2	Search	EditText			Admin type to search
3	Insert Unit	Button		Click	Admin click to go to insert page
4	Delete	Button		Click	Admin click to delete unit (after confirm dialog)
5	Update	Button		Click	Admin click to go to Update unit page

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9. Unit insert page

Insert New Unit!!

Enter Name Unit...

Insert

SB ADMIN 2

Dashboard

INTERFACE

Product Management

PRODUCT MANAGEMENT:

- Category
- SubCategory
- Unit**
- Manufacturer
- Product
- Promotion

Customer Management

Order Management

ADDONS

Pages

No.	Name	Type	Validation	Event	Description
1	Unit name	EditText	Not null		Admin input unit name to insert
2	Insert	Button		Click	After validate unit name admin click this button to insert

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10. Unit update page

SB ADMIN 2

Dashboard

INTERFACE

Product Management

PRODUCT MANAGEMENT:

- Category
- SubCategory
- Unit**
- Manufacturer
- Product
- Promotion

Customer Management >

Order Management >

ADDONS

Pages

Detail Update Unit!!

Kg

Insert

No.	Name	Type	Validation	Event	Description
1	Unit name	EditText	Not null		Admin input unit name to update
2	Update	Button		Click	After validate unit name admin click this button to update

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11. Manufacturer page

No.	Name	Type	Validation	Event	Description
1	Manufacturer List	Table			Manufacturer list
2	Search	EditText			Admin type to search
3	Insert Manufacturer	Button		Click	Admin click to go to insert page
4	Delete	Button		Click	Admin click to delete manufacturer (after confirm dialog)
5	Update	Button		Click	Admin click to go to Update manufacturer page

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12. Manufacturer insert page

SB ADMIN 2

Dashboard

INTERFACE

Product Management

PRODUCT MANAGEMENT:

- Category
- SubCategory
- Unit
- Manufacturer**
- Product
- Promotion

Customer Management

Order Management

ADDONS

Pages

Search for...

Insert New Manufacturer!!

Enter Name Manufacturer...

Enter Address Manufacturer...

Enter Email Manufacturer...

Enter Phone Manufacturer...

Insert

No.	Name	Type	Validation	Event	Description
1	Manufacturer name	EditText	Not null		Manufacturer name
2	Manufacturer address	EditText	Not null		Manufacturer's address, address is unique, can't be register with more than 1 customer
3	Manufacturer email	EditText	Not null		Manufacturer's email, email is unique, can't be register with more than 1 customer
4	Manufacturer phone	EditText	Not null		Manufacturer's phone number, phone is unique, can't be register with more than 1 customer
5	Insert	Button		Click	After validate input, admin click this button to insert

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13. Manufacturer update page

SB ADMIN 2

Dashboard

INTERFACE

Product Management

PRODUCT MANAGEMENT:

- Category
- SubCategory
- Unit
- Manufacturer**
- Product
- Promotion

Customer Management

Order Management

ADDONS

Pages

Detail Update Manufacturer!!

Công ty ITD

01 Sáng tạo

itdgroud.com.vn

0123456789

Insert

No.	Name	Type	Validation	Event	Description
1	Manufacturer name	EditText	Not null		Manufacturer name
2	Manufacturer address	EditText	Not null		Manufacturer's address, address is unique, can't be register with more than 1 customer
3	Manufacturer email	EditText	Not null		Manufacturer's email, email is unique, can't be register with more than 1 customer
4	Manufacturer phone	EditText	Not null		Manufacturer's phone number, phone is unique, can't be register with more than 1 customer
5	Insert	Button		Click	After validate input, admin click this button to update

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14. Product page

The screenshot shows a left sidebar with navigation options: Dashboard, INTERFACE, Product Management (selected), Customer Management, Order Management, ADDONS, Pages, and Charts. The main area is titled 'Insert Product' and contains a table titled 'DataTables Product'. The table has columns: Product ID, Product Name, Date, and Action. It lists 7 products: Kitchen Appliance, Apple mazane, Holle, Cheese, Nestle, Toy, and Conditioner. Each row has 'Update' and 'Delete' buttons.

Product ID	Product Name	Date	Action
1	Kitchen Appliance	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>
2	Apple mazane	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>
3	Holle	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>
4	Cheese	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>
5	Nestle	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>
6	Toy	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>
7	Conditioner	01-05-2020 00:00:00	<button>Update</button> <button>Delete</button>

No.	Name	Type	Validation	Event	Description
1	Product List	Table			Product list
2	Search	EditText			Admin type to search
3	Insert Product	Button		Click	Admin click to go to insert page
4	Delete	Button		Click	Admin click to delete product (after confirm dialog)
5	Update	Button		Click	Admin click to go to Update product page

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15. Product insert page

INSERT NEW PRODUCT!!

Enter Name Product...

Select Category

Select SubCategory

Select Unit

Select Manufacturer

Enter Original Price Product...

Enter Selling Price Product...

Enter Description Product...

Enter Made In Product...

true

Choose File | No file chosen

No.	Name	Type	Validation	Event	Description
1	Product's name	EditText	Not null		Product's name
2	Product's category	EditText	Not null		Product's category
3	Product's subcategory	EditText	Not null		Product's subcategory
4	Product's unit	EditText	Not null		Product's unit
5	Product's manufacturer	EditText	Not null		Product's manufacturer
6	Product's original price	EditText	Not null		Product's original price
7	Product's selling price	EditText	Not null		Product's selling price
8	Product's description	EditText	Not null		Product's description
9	Product's made in	EditText	Not null		Product's made in
10	Active product	EditText	Not null		If value = true, this product will be show in product page, if false this product will don't show in product page
11	Choose file	EditText		Click	After click this button ,admin choose image for this product
12	Insert	Button		Click	After validate input, admin click this button to insert

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16. Product update page

The screenshot shows a product update interface. On the left is a sidebar with navigation links: Product Management, Customer Management, Order Management, ADDONS, Pages, Charts, and Tables. The main area is titled "Detail Update Product!!". It contains several input fields: Category (Kitchen Appliance), SubCategory (Baby Care), Baby Food, Unit (Kg), Manufacturer (Công ty ITD), Price (20000.0), Original Price (20000.0), Description (Abc), Made In (USA), and Active (true). There is also a "Choose File" button with "No file chosen" and a preview image of a baby bottle.

No.	Name	Type	Validation	Event	Description
1	Product's name	EditText	Not null		Product's name
2	Product's category	EditText	Not null		Product's category
3	Product's subcategory	EditText	Not null		Product's subcategory
4	Product's unit	EditText	Not null		Product's unit
5	Product's manufacturer	EditText	Not null		Product's manufacturer
6	Product's original price	EditText	Not null		Product's original price
7	Product's selling price	EditText	Not null		Product's selling price
8	Product's description	EditText	Not null		Product's description
9	Product's made in	EditText	Not null		Product's made in
10	Active product	EditText	Not null		If value = true, this product will be show in product page, if false this product will don't show in product page
11	Choose file	EditText		Click	After click this button ,admin choose image for this product
12	Insert	Button		Click	After validate input, admin click this button to upate

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17. Promotion page

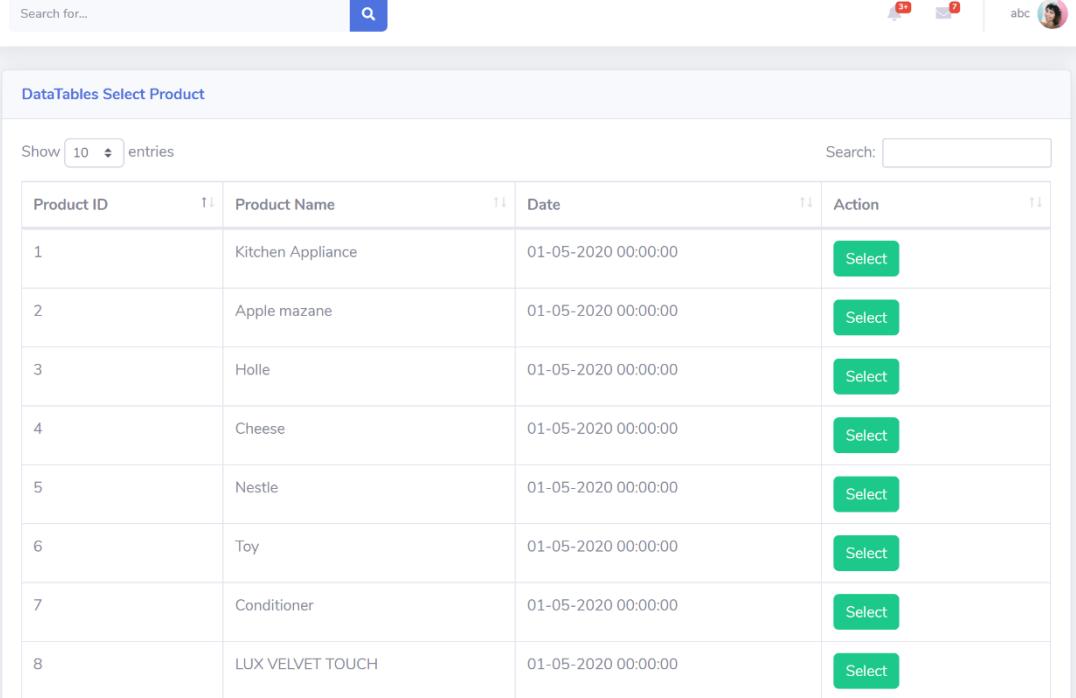
localhost:8080/stroeHKTTAdmin/index.html

No.	Name	Type	Validation	Event	Description
1	Promotion List	Table			Promotion list
2	Search	EditText			Admin type to search
3	Insert promotion	Button		Click	Admin click to go to Select promotion page if less than 5 products, show error if more than 5 products
3	Delete	Button		Click	Admin click to delete promotion (after confirm dialog)
4	Update	Button		Click	Admin click to go to Update promotion page

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18. Promotion select product page

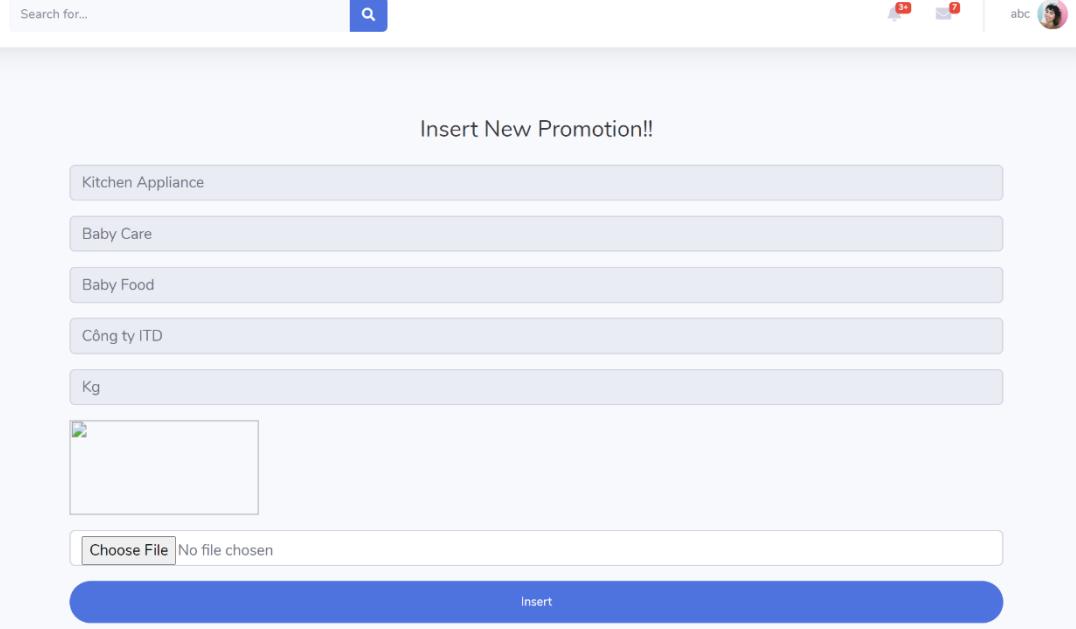


The screenshot shows a table titled "DataTables Select Product" with the following data:

Product ID	Product Name	Date	Action
1	Kitchen Appliance	01-05-2020 00:00:00	Select
2	Apple mazane	01-05-2020 00:00:00	Select
3	Holle	01-05-2020 00:00:00	Select
4	Cheese	01-05-2020 00:00:00	Select
5	Nestle	01-05-2020 00:00:00	Select
6	Toy	01-05-2020 00:00:00	Select
7	Conditioner	01-05-2020 00:00:00	Select
8	LUX VELVET TOUCH	01-05-2020 00:00:00	Select

No.	Name	Type	Validation	Event	Description
1	Select	Button		Click	Go to insert promotion page with item selected

19. Promotion insert page



The screenshot shows a form titled "Insert New Promotion!!" with the following fields:

- Input field: Kitchen Appliance
- Input field: Baby Care
- Input field: Baby Food
- Input field: Công ty ITD
- Input field: Kg
- Image input field: A placeholder box with a small image icon.
- File input field: Choose File No file chosen
- Large blue "Insert" button at the bottom

At the bottom of the page, there are two rows of text boxes:

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No.	Name	Type	Validation	Event	Description
1	Choose file	Button	Not null	Click	Admin must choose image to insert
2	Update	Button		Click	After choose image admin click this button to insert

20. Promotion update page

SB ADMIN 2

Dashboard

INTERFACE

Product Management

PRODUCT MANAGEMENT:

- Category
- SubCategory
- Unit
- Manufacturer
- Product
- Promotion

Customer Management

Order Management

ADDONS

Pages

Charts

Search for...

Detail Update Promotion!!

Kitchen Appliance

Baby Care

Baby Food

Công ty ITD

Kg

Choose File No file chosen

Update

No.	Name	Type	Validation	Event	Description
1	Choose file	Button		Click	Admin choose image to update
2	Update	Button		Click	After choose image admin click this button to update

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21. Customer page

The screenshot shows a left sidebar with a blue header 'SB ADMIN 2' and a navigation menu including Dashboard, INTERFACE, Product Management, Customer Management (selected), Order Management, ADDONS, Pages, Charts, and Tables. The Customer Management section has a sub-menu for CUSTOMER MANAGEMENT: Customer. The main content area is titled 'Insert Customer' and contains a 'DataTables Customer' table. The table has columns for Customer ID, Customer Name, Customer Email, Date, and Action. It shows two entries: one for Khoa and one for Tan. Each entry has 'Delete' and 'Update' buttons. Below the table, it says 'Showing 1 to 2 of 2 entries'. At the bottom right, there are 'Previous' and 'Next' buttons, and the text 'Copyright © Your Website 2019'.

No.	Name	Type	Validation	Event	Description
1	Customer List	Table			Customer list
2	Search	EditText			Admin type to search
3	Insert	Button		Click	Admin click to go to insert page
4	Delete	Button		Click	Admin click to delete customer (after confirm dialog)
5	Update	Button		Click	Admin click to go to Update subcategory page

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22. Customer page

The screenshot shows a 'Customer Management' section within a blue-themed admin interface. On the left, a sidebar lists 'Dashboard', 'INTERFACE' (Product Management, Customer Management), 'CUSTOMER MANAGEMENT' (Customer), 'Order Management', 'ADDONS' (Pages, Charts, Tables), and a circular 'Logout' button. The main area has a header 'Insert New Customer!!' and contains six input fields: 'Enter Name Customer...', 'Enter Email Customer...', 'Enter Phone Customer...', 'Enter Address Customer...', 'Enter Pass first...', and 'Enter Pass Second...'. Below these is a dropdown menu set to 'true'. A large blue 'Insert' button is at the bottom. The footer displays 'Copyright © Your Website 2019'.

No.	Name	Type	Validation	Event	Description
1	Customer's name	EditText	Not null		Customer's name
1	Customer's email	EditText	Not null		Customer's email, email is unique, can't be register with more than 1 customer
1	Customer's phone	EditText	Not null		Customer's phone number, phone is unique, can't be register with more than 1 customer
1	Customer's address	EditText	Not null		Customer's address, address is unique, can't be register with more than 1 customer
1	Pass 1st	EditText	Not null		Password 1
1	Pass 2nd	EditText	Not null		Password 2
2	Insert	Button		Click	After validate input, admin click this button to insert

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Project Group No : 1	

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23. Customer update page

SB ADMIN 2

Dashboard

INTERFACE

Product Management

Customer Management

CUSTOMER MANAGEMENT:

Customer

Order Management

ADDONS

Pages

Charts

Tables

Detail Update Customer!!

Khoa

0938367752

Ho Chi Minh

Indkhoa95@gmail.com

Enter Pass first...

Enter Pass Second...

true

Update

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No.	Name	Type	Validation	Event	Description
1	Customer's name	EditText	Not null		Customer's name
1	Customer's email	EditText	Not null		Customer's email, email is unique, can't be register with more than 1 customer
1	Customer's phone	EditText	Not null		Customer's phone number, phone is unique, can't be register with more than 1 customer
1	Customer's address	EditText	Not null		Customer's address, address is unique, can't be register with more than 1 customer
1	Pass 1st	EditText	Not null		Password 1
1	Pass 2nd	EditText	Not null		Password 2
2	Insert	Button		Click	After validate input, admin click this button to update

Prepared by : All Members	Approved by : Mr. Ngo Phuoc Nguyen
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24. Order page

The screenshot shows a web application interface for managing orders. On the left, there is a sidebar with a blue header 'SB ADMIN 2' and various navigation links including Dashboard, Product Management, Customer Management, Order Management (selected), Pages, Charts, and Tables. The main content area has a title 'DataTables Order'. It features a search bar at the top right and a table below it. The table has columns for Order ID, Order Code, Order Date, Ship Name, Ship Phone, Ship Address, Ship Note, Status, and Action. One row is visible with data: Order ID 1, Order Code 1, Order Date 01-01-1999 00:00:00, Ship Name anh shpper, Ship Phone 19001560, Ship Address Q3, Ship Note gan chung cu, Status 2, and Action with a green 'Detail' button. Below the table, it says 'Showing 1 to 1 of 1 entries'. At the bottom right, there are 'Previous' and 'Next' buttons. The footer of the page says 'Copyright © Your Website 2019'.

No.	Name	Type	Validation	Event	Description
1	Order List	Table			Order list
2	Search	EditText			Admin type to search
5	Details	Button		Click	Admin click to go to Update order page to update status

25. Update order status page

The screenshot shows a web application interface for updating order status. On the left, there is a sidebar with a blue header 'SB ADMIN 2' and various navigation links including Dashboard, Product Management, Customer Management, Order Management (selected), Pages, Charts, and Tables. The main content area has a title 'Detail Update Order!!'. It features a form with fields for Order ID (1), Ship Name (Khoa), Ship Phone (19001560), and Ship Address (820.0). Below the form is a dropdown menu for Status with options: Status:Processing (selected), Status:Done, and DataTables Products Purchased. To the right of the form is a large blue button labeled 'Insert'. Below the form is a table titled 'DataTables Products Purchased' with columns: Product Name, Original Price, Selling Price, Description, Unit Name, Manufacturer Name, Made In, and Quantity. One row is visible: sach giao lop 12e, 120.0, 130.0, 1, 1, 1, 1, 2. At the bottom, there is a search bar and a table showing product details: Product Name (sach giao lop 12e), Original Price (120.0), Selling Price (130.0), Description (1), Unit Name (1), Manufacturer Name (1), Made In (1), and Quantity (2).

No.	Name	Type	Validation	Event	Description
1	Order Id	Text			Order Id

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2	Receiver's name	Text		Receiver's name
5	Receiver's phone	Text		Receiver's phone
6	Receiver's address	Text		Receiver's address
7	Original sum	Text		Original sum
8	Selling sum	Text		Selling sum
9	Order's status	Select	Click	Order's status.
10	Update	Button		Update status of order. If status is NEW, can only update to PROCESSING. If status is PROCESSING, can only update to DONE.
11	Product list in order	Table list		Product list in order

26. Report page

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VI. TASK SHEET REVIEW 3

Project Ref. No:		Project Title: HKTT Store	Date of Preparation of Activity Plan			
No.	Task	Description	Start Date	Complete Date	Team Member Names	Status
01	Review 1	I. Database Relationship Diagram II. Table Definition III. Site map IV. Customer GUI design - Home screen - Cart screen - Check out screen - Search by product name - Filtered by sub category - Orders list - Order details - Report	22/05/2020	27/05/2020	Le Ngoc Dang Khoa	
02		IV. Customer GUI design - Splash screen - Login screen - Sign up - Profile - Change password - Update information - Product details - Report			Hoang Thanh Tai	
03		V. Admin GUI design - Category - Manufacturer - Unit - SubCategory - Report			Ha Minh Tan	
04		V. Admin GUI design - Product - Promotion - Customer - Order - Report			Pham Huynh	

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	Prepare By: Group 1	Approved By:
Date: 01/06/2020	Team Leader Le Ngoc Dang Khoa	
		Mr. Ngô Phước Nguyễn

Prepared by : All Members	Approved by : Mr. Ngo Phuoc Nguyen
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