

## Revision History

Date	Version	Description	Author
<22/03/2021>	<1.0>	Complete Specify use-case Rating,Specify use-case Payment,Specify use-case Log in +Use-case model,Specify use-case import goods,Specify use-case inventory management, Specify use-case searching items	Nguyễn Đăng Triều + Lê Thị Thùy Dương
<24/03/2021>	<1.1>	Complete Specify use-case view items,Specify use-case add to cart, Specify use-case buy items+Specify use-case Register,Specify use-case Forgot Password,Specify use-case Profile Management	Nguyễn Lê Đức Hoàng +Nguyễn Bá Tín
<25/03/2021>	<1.2>	Complete Detailed vision document,Revised project plan,Update Weekly Report	Lê Hồng Quang
<09/04/2021>	<1.3>	Update revision history for PA3	Lê Hồng Quang

### Use-case Login

<b>UseCase_ID</b>	<b>001</b>
<b>UseCase_Name</b>	Log in
<b>Description</b>	For users who already have an account, users login into the system to use features on the website.
<b>Agent</b>	Customer, Manager
<b>Condition Precedent</b>	Users must have an available account before.
<b>Result</b>	Log in system, go to user page, display user interface.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. User access website main page.</li> <li>2. Users find and click the 'sign in account'.</li> <li>3. User fills username and password.</li> <li>4. User clicks the 'sign in'.</li> <li>5. System check information account.</li> <li>6. System shows notification sign-in success, go to the user interface-page.</li> </ol>

<b>Alternative flow</b>	<p>1. In step 3, If a user is missing an account name or password, the system shows a warning.</p> <p>2. In step 4, if the user presses sign in or presses enter, the system will check infor account and show notifications.</p> <p>3. In step 4, If a user login false 5 consecutive times. The system shows notification and asks 'you were sign-in exceed the number of time allowed ', at the time the system shows two choices is forgot-password or continue log-in.</p> <p>4. In step 5, If the user name or password is wrong, the system shows notification 'username or password wrong, please re-enter '.</p>
<b>Non-Functional Requirements</b>	<p>1.Login button must be placed in a position easy to see.</p> <p>2.Fonts,size easy to read.</p> <p>3.Auto fill username for login next time (have tick)</p>

#### Use-case: Register

<b>UseCase_ID</b>	<b>002</b>
<b>UseCase_Name</b>	Register
<b>Description</b>	Users will use this feature to register accounts and use features of the system.
<b>Agent</b>	Customer
<b>Condition Precedent</b>	User doesn't have an account available yet.
<b>Result</b>	Users have accounts available to sign in to the system.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. Users access the website main page.</li> <li>2. Users find and click the button create a new account 'sign up'.</li> <li>3. Users fill the username and password and information involved for the account.</li> <li>4. Users click the 'sign up'.</li> <li>5. System check information account and save new account to database.</li> <li>6. System shows notification sign-up success, and redirects the user interface-page.</li> </ol>
<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>1. In step 3, If a user blank anyfield, this field will show a warning.</li> <li>2. In step 3, email,Name, password, phone number</li> </ol>

	must be in correct format and available. 3.In step 3, if email, username or phone number/email/email is not available, System reports the error in the error fields.
<b>Non-Functional Requirements</b>	1.Sign up button must be placed in a position easy to see. 2.Fonts,size easy to read. 3. The system Only requests re-type invalid fields, not all. encode information of the user.

#### Use-case: Inventory management

<b>UseCase_ID</b>	<b>003</b>
<b>UseCase_Name</b>	Inventory management
<b>Description</b>	The manager will use this function to view missing items and call the import function to replenish. And also find solution for redundant items
<b>Agent</b>	Manager
<b>Condition Precedent</b>	Need to have manager account to login and call this function
<b>Result</b>	Website will display product's list and quantity for manager to view
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. Users fill in the username and password of the manager account and sign in.</li> <li>2. Website will show the interface similar to the customer account and also show a list of functions that only the manager can see.</li> <li>3. Manager finds and clicks the 'Inventory management' button (Only manager can see this button).</li> <li>4. Website will display a table of products and available amounts in stock.</li> <li>5. Website also shows 2 buttons: redundant products (products with the fewest buyers) and missing products (the product is out of stock).</li> <li>6. Manager will view these 2 lists and decide the upcoming business campaign.</li> </ol>

<b>Alternative flow</b>	1. In step 1, If a user is missing or enters an invalid account name/ password the system will show a warning.
<b>Non-Functional Requirements</b>	1. 'Inventory management' button must be placed in a position easy to see because this is one of the most important manager 's function 2. Data display is easy to read.

#### Use-case: Import goods

<b>UseCase_ID</b>	<b>004</b>
<b>UseCase_Name</b>	Import goods
<b>Description</b>	Only managers can use this function to import goods to the shop (Edit existing amount of items or create new products on the system).
<b>Agent</b>	Manager
<b>Condition Precedent</b>	Need to have manager account to login and call this function
<b>Result</b>	Edit the number of items or create new items on stock.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. Users fill in the username and password of the manager account and sign in.</li> <li>2. Website homepage will be displayed and also display the 'Import goods' button (only the manager account can see and click this button).</li> <li>3. When the manager clicks this button the website will display 2 functions for the manager to choose: Import button (Edit amount of products on stock) and create new product (add new product on the website).</li> <li>4. As the import button manager will need to fill productID want to edit and new amount then system will update the amount of chosen product.</li> <li>5. As create new product manager will need to fill information on a product (name, type, amount, ...). Then the system will check valid and put that new product on stock.</li> </ol>

<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>1. In step 1, If a user is missing or enters an invalid account name or password, the system shows a warning.</li> <li>2. In step 4, if system can't find productID then it will raise error and require re-entry from the beginning</li> <li>3. In step 5, if manager missing or fill in any invalid column then system will also raise error and require re-entry from the beginning</li> </ol>
<b>Non-Functional Requirements</b>	<ol style="list-style-type: none"> <li>1. 'Import goods' button must be placed in a position easy to see because this is one of the most important manager 's function</li> <li>2. Data display is easy to read.</li> </ol>

### Use-case Forgot password

<b>UseCase_ID</b>	<b>005</b>
<b>UseCase_Name</b>	Forgot password
<b>Description</b>	For users who already have an account, but forgot the password of the account.
<b>Agent</b>	Customer
<b>Condition Precedent</b>	Users must have an available account before.
<b>Result</b>	The account will have a new password relative to password the users was created.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. The user presses the button forgot password.</li> <li>2. The system redirects to interface forgot password.</li> <li>3. The user fills the account name in the box 'account name', and chooses either to use your registered phone number or email to retrieve your password.</li> <li>4. After that, the system will send a link to set a new password for the account.</li> <li>5. The user fills the new password for the account and presses ok.</li> <li>6. The system updates the new password of the account.</li> <li>7. The system shows notifications the password of your was changed, let go to the page sign.</li> </ol>
<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>1. In step 3, if an account name is not correct, the system shows notifications that this account does not exist or account name wrong.</li> </ol>

<b>Non-Functional Requirements</b>	1.Forgot password button must be placed in a position easy to see. 2.Fonts,size easy to read.
------------------------------------	--

### Use-case Profile management

<b>UseCase_ID</b>	<b>006</b>
<b>UseCase_Name</b>	Profile management
<b>Description</b>	For users who already have an account and the user can view, insert, delete, update account information.
<b>Agent</b>	Customer
<b>Condition Precedent</b>	Users must have an available account before.
<b>Result</b>	account information will be changed if the user changes information of the account.
<b>Main flow</b>	1. After users were signed in, the users press button profile management in the corner of the screen. 2. The system redirects to interface page profile management. 3. The users can change name, email, phone-number, address, sex, date of birth... 4. After filling in the information that needs changes, the user clicks the button 'save'. 5. The system will update information for an account.
<b>Alternative flow</b>	1. In step 3, if the users fill email or phone number are not valid, the system shows notifications as 'email or phone number do not valid, please re-enter'.
<b>Non-Functional Requirements</b>	1. Profile management button must be placed in a position easy to see. 2. Fonts,size easy to read, layout display information of account must be reasonable.

### Use case View items

<b>Use case ID</b>	<b>007</b>
<b>Use case name</b>	View Items.

<b>Description</b>	For customer who already have valid account before and view items to buy
<b>Agent</b>	Customer.
<b>Condition Precedent</b>	Customer must login successfully.
<b>Result</b>	Customers buy items successfully.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. After searching for items, customers click on items the customer wants to view.</li> <li>2. The system switched the display page to the items details.</li> <li>3. Customers can roll up and down to view item details.</li> <li>4. Item details include: Price, Number of items in the store, Color, Origin, Uses, Introduction for uses, size of item, review for item, describe about item, Item shelf life, Quantity sold, Related items.</li> <li>5. If a customer wants to buy an item, click on the Buy button, else the customer can click the back button on the upper left corner of the display to go back to the list of items.</li> <li>6. If a customer wants to add an item to cart and view another item, click the button Add item to cart.</li> <li>7. Customers can view another item.</li> <li>8. Customers can also watch: Hot items, Newly imported items, Items in promotions. Each item has a seperate button, so customers can view what item they want. Each button with be placed above the list of items in the page display</li> </ol>
<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>1. In step 3 customers can use the up or down button on the keyboard to view items details.</li> <li>2. In step 5 if the item is out of line the Buy button will display Out of line rather Buy.</li> </ol>
<b>Non - Functional Requirements</b>	<ol style="list-style-type: none"> <li>1. The item details must be displayed fully expressed.</li> <li>2. Details item must be updated continuously.</li> </ol>

#### Use-case: Searching items

<b>UseCase_ID</b>	008
<b>UseCase_Name</b>	Searching items

<b>Description</b>	For users who want to find specific productID or product's name
<b>Agent</b>	Customer, Manager
<b>Condition Precedent</b>	Users don't need to have a account to use this function
<b>Result</b>	Display the product with the ID that the user search
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. User access website main page.</li> <li>2. Users go to the product tab and the website will display a list of products and a button named 'Search' there.</li> <li>3. Users click the button and enter productID or product name.</li> <li>4. Website will display the productID or name to match user requirements.</li> </ol>
<b>Alternative flow</b>	1. In step 3, if the system cannot find any product that has the same ID or name that the user had entered then will show notification 'ProductID or name does not exist please try again'.
<b>Non-Functional Requirements</b>	Time searching quickly, results have 100% accuracy.

#### Use case Add to cart

<b>Use case ID</b>	<b>009</b>
<b>Use case name</b>	Add to cart.
<b>Description</b>	When the customer is satisfied with the item but still wants to view more, the customer can add an item to cart and view another item.
<b>Agent</b>	Customer.
<b>Conditional Precedent</b>	Item must be available in store and that item have amount > 0
<b>Result</b>	Item in cart of customer.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. When the customer is satisfied with the item, instead of clicking the buy button, the customer can click the add to cart button.</li> </ol>



	<ol style="list-style-type: none"> <li>Items will be added to cart and customers can go back to view another item.</li> <li>When an item is added to cart, in the upper right corner of the display screen, the cart icon will have a number of items in the customer cart.</li> <li>Customers can click on the cart icon in the upper left corner of the screen to check the item list selected.</li> </ol>
<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>When an item is out of line, the customer can add it to the cart.</li> </ol>
<b>Non - functional Requirement</b>	none

### Use case Buy items

<b>Use case ID</b>	<b>010</b>
<b>Use case name</b>	Buy items.
<b>Description</b>	Function for customer to buy item that have been added into cart
<b>Agent</b>	Customer.
<b>Conditional Precedent</b>	Customer must put item into cart before and customer have to log in to do this action
<b>Result</b>	Buy items successfully.
<b>Main flow</b>	<ol style="list-style-type: none"> <li>Customer click buy button.</li> <li>The system switches the display to the Buy page.</li> <li>The information about the item will be shown to the customer.</li> <li>Information include: Price, Quantity, Total price, delivery address, Voucher, Shipping unit, Payment method, notice for shop or shipper.</li> <li>Customers click on items they want to buy in cart, check shipping address, choose payment method, shipping unit.</li> <li>Customer clicks Order button.</li> <li>If a customer wants to select more items, the customer can click the back button on the upper left corner of the display to go back to the details item.</li> </ol>
<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>In step 5, if a customer doesn't choose a payment method or click on any item, the customer can't click the Order button.</li> </ol>

<b>Non - functional Requirements</b>	none
--------------------------------------	------

### Use case Payment

<b>UseCase_ID</b>	<b>011</b>
<b>UseCase_Name</b>	Payment
<b>Description</b>	For users to pay when buying products, users can choose from different forms of payment depending on their needs
<b>Agent</b>	Customer
<b>Condition Precedent</b>	Customers have to buy products. Users must have an available account before. Account used to pay for products customers are about to buy
<b>Result</b>	The customer has paid for the order
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. User click shopping cart after selecting the products you want to buy</li> <li>2. User chooses to place an order</li> <li>3. User chooses the form of payment</li> <li>4. User chooses to order</li> <li>5. System notifies the user of successful order</li> </ol>
<b>Alternative flow</b>	<ol style="list-style-type: none"> <li>1. In step 2, Users can choose to add a promotional code to reduce the order price</li> <li>2. In step 3, If the user chooses to pay with momo or zalopay wallet, scan the QR code, if the user chooses to pay by ATM / internet banking, enter the card number and name printed on the card, if paying with Visa / Master international card / JCB, enter the card number, name printed on the card, expiration date, security code</li> <li>3. In step 5, If the user chooses the form of card or wallet payment, the user fails if the amount in the card is insufficient</li> </ol>

<b>Non-Functional Requirements</b>	1. Show more how this is the number of orders in total purchased
------------------------------------	--

### Use case Rating

<b>UseCase_ID</b>	<b>012</b>
<b>UseCase_Name</b>	Rating
<b>Description</b>	For users, used to rate the website's products after buying
<b>Agent</b>	Customer
<b>Condition Precedent</b>	Users must have an available account before. The user account used to buy items is also the account used to rate products
<b>Result</b>	Show user product reviews
<b>Main flow</b>	<ol style="list-style-type: none"> <li>1. User clicks on the purchase</li> <li>2. User selects the assigned item</li> <li>3. User choose the product they want to rate</li> <li>4. User selects the product review button</li> <li>5. User can give product stars, can add images or videos of product status after being delivered, and comment on products.</li> <li>6. User presses complete after finishing evaluating the product</li> </ol>
<b>Alternative flow</b>	1. In step 4, If a customer wants a review, select the product the customer has previously reviewed and modified the review information
<b>Non-Functional Requirements</b>	1. Add the total bar of good and bad reviews of all customers' products

