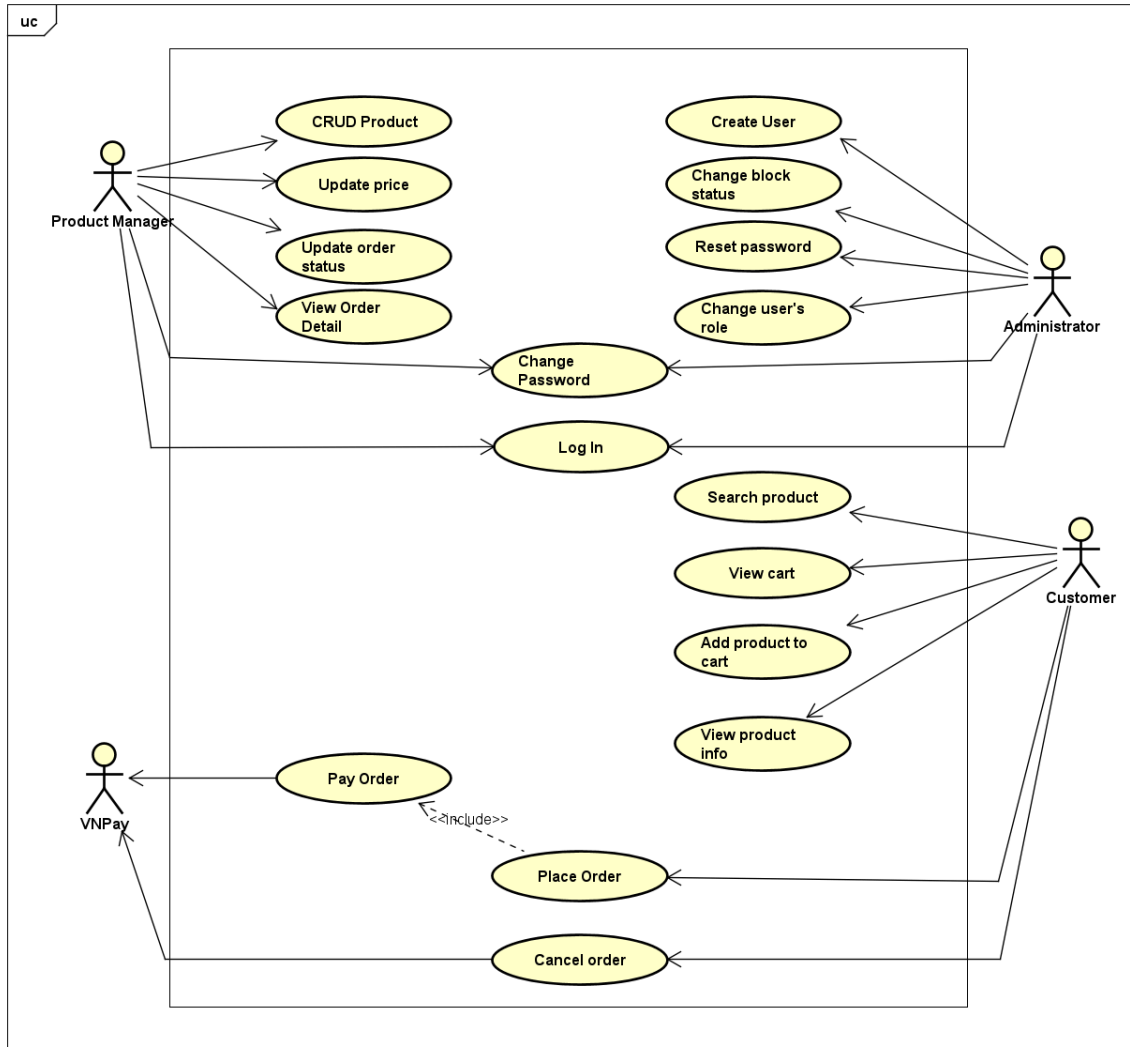


USECASE SPECIFICATION

GROUP 01



1. Use case – Place Order

Use case - Place Order

1. **Use case code**
UC01
2. **Brief Description**
The use case describes the interactions between customers and AIMS software when the customer wants to place an order.
3. **Actors**
3.1. **Customer**
4. **Preconditions**
There is at least one item in the cart.
5. **Basic flow**
 Step 1. Customer requests to place an order in the cart.
 Step 2. AIMS software checks the availability of products in the cart.
 Step 3. AIMS software displays the form of delivery information with order information.
 Step 4. Customer enters and submits delivery information. (Table 1)
 Step 5. AIMS software calculates and displays order and shipping fees. (Table 2)
 Step 6. The customer confirms the invoice and asks to pay order.
 Step 7. The AIMS software calls UC “Pay Order”.
 Step 8. The AIMS software saves order and creates a new order.
 Step 9. The AIMS software makes the cart empty.
 Step 10. The AIMS software sends email about the order notification and information.
 Step 11. The AIMS software displays the successful order notification, the order and the transaction information. (Table 3)
6. **Alternative flow**

No	Location	Condition	Action	Resume Location
1.	At Step 3	If the products are not available	The AIMS software notifies that the products in the cart are not available and stay at the use case “View cart”	Use case ends
2.	At Step 5	If the delivery info is invalid	AIMS software notifies that the delivery info is invalid (blank or wrong format)	At Step 3

3.	At Step 5	If the user chooses to place a rush order	AIMS software inserts use case “Place rush order”	At Step 6
4.	At Step 8	If the order payment is not successful or goes back from payment	AIMS software notifies that the order payment is unsuccessful	At Step 5

7. Input

Table 1. Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Receiver name		Yes		Mai Duc An
2.	Phone number		Yes	10 digits	0353024468
3.	Province	Choose from a list	Yes		Hanoi
4.	Address		Yes		1st Dai Co Viet, Hai Ba Trung, Hanoi
5.	Shipping instructions		No		

8. Output data

Table 2. Output data of order information and shipping fee

N o	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Phim Vượt ngục

2.	Price	Price of the corresponding media product	- Comma for thousands separator - Positive integer - Right alignment	123,000
3.	Quantity	Quantity of the corresponding media	- Positive integer - Right alignment	2
4.	Amount	Total money of the corresponding media	- Comma for thousands separator - Positive integer - Right alignment	246,000
5.	Subtotal	Total amount of all products in the order	- Comma for thousands separator - Positive integer - Right alignment	2,316,000
6.	Shipping fee		- Comma for thousands separator - Positive integer - Right alignment	30,000

Table 3. Output data of general information of order and transaction info

N o	Data fields	Description	Display format	Example
1.	Customer name			Mai Duc An
2.	Phone number			0353024468
3.	Province			Hanoi
4.	Address	Address of receiver		1st Dai Co Viet, Hai Ba Trung, Hanoi

5.	Total amount	Total amount of all products in the order	Right alignment Vietnamese currency (VND) Vietnamese locale	1.200.000 VND
6.	Transaction ID			
7.	Transaction content			
8.	Transaction date		dd/mm/yyyy	09/03/2024
9. Postconditions A new order is created, and its information is sent via email to the customer.				

2. Use case – Pay Order

Use case - Pay Order

1. Use case code

UC02

2. Brief Description

The use case describes the interactions between AIMS software with the customer and VNPay when the customer desires to pay an order.

3. Actors

3.1. Customer

3.2. VNPay

4. Preconditions

The customer has confirmed the invoice. AIMS software has calculated the total amount of money that the customer has to pay.

5. Basic flow

Step 1. AIMS software displays the invoice (Table 1).

Step 2. Customer asks to pay the invoice.

Step 3. AIMS software redirects to VNPay with payment information.

Step 4. VNPay notifies the transaction result. (Table 2)

Step 5. AIMS software saves the payment transaction.

6. Alternative flow

No	Location	Condition	Action	Resume Location
1.	At Step 5	If the customer cancels the payment transaction		At Step 1

7. Input

Table 1. Input data of payment information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Card holder name		Yes		Mai Duc An
2.	Card number		Yes	16 digits	1234 5678 9876 5432

3.	Expiration date	The month, year of card expiration	Yes	mm/yy	12/26
4.	Security code		Yes		123456

8. Output data

Table 2. Output data of general information of order and transaction info

No	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Phim Vượt ngục
2.	Price	Price of the corresponding media product	- Comma for thousands separator - Positive integer - Right alignment	123,000
3.	Quantity	Quantity of the corresponding media	- Positive integer - Right alignment	2
4.	Amount	Total money of the corresponding media	- Comma for thousands separator - Positive integer - Right alignment	246,000
5.	Subtotal before VAT	Total amount of all products in the cart before VAT		2,106,000
6.	Subtotal	Total amount of all products in the cart with VAT		2,316,000
7.	Shipping fee			30,000

8.	Total	Sum of subtotal and shipping fees		2,346,000
9.	Currency			VND
10.	Name			Mai Duc An
11.	Phone number			0123456789
12.	Province			Hanoi
13.	Address			1st Dai Co Viet, Hai Ba Trung, Hanoi
14.	Shipping instructions			
9. Postconditions <ul style="list-style-type: none"> • AIMS software notifies successful payment. • Order details are stored in the system. • An email of successful order sent to. 				

3. *Use case – Place Rush Order*

Use case - Place Rush Order

1. Use case code

UC03

2. Brief Description

The use case describes the interactions between AIMS software with the customer when the customer wishes to place a rush order which allows them to receive the order within a shorter time frame.

3. Actors

3.1. Customer

4. Preconditions

The customer has provided the delivery information and wants to place a rush order.

5. Basic flow

Step 1. The customer requests to place a rush order.

Step 2. AIMS software checks the address that is supported for the selected product and delivery address.

Step 3. AIMS software prompts the customer to update the delivery information.

Step 4. Customer provides rush order delivery information. (Table 1)

Step 5. AIMS Software verifies the customer rush order information and calculates rush order shipping fee.

6. Alternative flow

No	Location	Condition	Action	Resume Location
1.	At Step 2	If rush order is not supported for shipping address or selected product	The AIMS software notifies the customer that rush order is not supported	Continue Use case "Place an order" with normal delivery.
2.	At Step 5	If the delivery address is not supported	The AIMS software notifies the address is not supported for rush order	At Step 3

7. Input

Table 1. Input data of rush order information

No	Data fields	Description	Mandatory	Valid condition	Example
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1.	Delivery time		Yes		14h
2.	Delivery instructions		Yes		

8. Output data

9. Postconditions

- Customer places rush order successfully.
- Customer continues at payment step.

4. Usecase – CRUD Product

Use Case “CRUD Product”

1. Use case code

UC001

2. Brief Description

This use case describes the interaction between product manager and AIMS system when manager wish(es) to create, read, update and delete

3. Actors

3.1. Customer

4. Preconditions

4.1. Manager is in home page interface

5. Basic Flow of Events

Step 1. The manager interacts with AIMS logo

Step 2. The software displays product manager screen

Step 3. The manager enters product information (see Table A)

Step 4. The software displays chosen product information (see Table B)

Step 5. The manager chooses delete the product

Step 6. The software deletes the product

Step 7. The manager chooses update product, enter information that need to be update then accept

Step 8. Software saves the modification.

Step 9. The manager chooses add product, fill product information

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
	At Step 7	If manager choose Close	· The system cancel changes	Resumes at Step 2
	At Step 9	If manager choose Close	· The system cancel changes	Resumes at Step 2

7. Input data

Table A-Input data of ...

No	Data fields	Description	Mandatory	Valid condition	Example
	title	project title name	yes		
	category	product category	yes		
	value	product value	yes	number	
	price	current product price	yes	number	
	quantity	available product quantity	yes	number	
	image	product image url	no		

8. Output data

Table B-Output data of ...

No	Data fields	Description	Display format	Example
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9. Postconditions					

5. *Usecase – Search Product*

Use Case “Search Product”

1. Use case code

UC002

2. Brief Description

This use case describes the interaction between customer and AIMS software when customer wish(es) to search product

3. Actors

3.1.Customer

4. Preconditions

4.1.Customer is in the AIMS homepage

5. Basic Flow of Events

Step 1. The customer enters product keyword into search input, then click search button (see Table A)

Step 2. The software displays all products that contain the search keyword in their title.

Step 3. The software displays product information (see Table B).

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1	At Step 2	If system cannot find any product that match the keyword	Software display notification	End usecase

7. Input data

Table A-Input data of search text input

No	Data fields	Description	Mandatory	Valid condition	Example
1	Search keyword	Any input keyword	Yes	Cannot be blank or white space	

8. Output data

Table B-Output data of product information

No	Data fields	Description	Display format	Example
1	Title		text	
2	Quantity		number	
3	Price		number	
4	Image		text	

9. Postconditions

6. *Usecase – Sort Product*

Use Case “Sort Product ”

1. Use case code

UC003

2. Brief Description

This use case describes the interaction between customer and AIMS software when customer wish(es) to sort product

3. Actors

3.1. Customer

4. Preconditions

5. Basic Flow of Events

Step 1. The customer clicks the "Sort by Price" button.

Step 2. The software sorts the list of products by price, either in ascending or descending order.

Step 3. The software displays the sorted list of products (see Table B).

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1	At Step 3	If the system cannot find any products to display	Software display notification	End usecase

7. Input data

Table A-Input data of ...

No	Data fields	Description	Mandatory	Valid condition	Example
1	Filter	choose from a list	Yes	choose from a list	

8. Output data

Table B-Output data of ...

No	Data fields	Description	Display format	Example
1	Title		text	
2	Quantity		number	
3	Price		number	
4	Image		text	

9. Postconditions

7. Usecase – *Manage Cart*

Use Case “Manage Cart”

1. Use case code

UC004

2. Brief Description

This use case describes the interaction between customer and AIMS system when customer wishes to manage his/her cart

3. Actors

3.1. Customer

4. Preconditions

5. Basic Flow of Events

Step 1. The custom access the AIMS system

Step 2. The software display list of product

Step 3. The customer chooses wished products then click to ‘Add to cart’ button

Step 4. The software displays notification (“Added”)

Step 5. The customer clicks to Cart

Step 6. The software shows product list in customer cart

Step 7. The customer chooses products need to order

Step 8. The software displays total amount of chosen products

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
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1	At Step 3	The available quantity cannot meet	· Software notify	Resumes at Step 2
2	At Step 7	The available quantity cannot meet	· Software notify · Remove product from cart	Resumes at Step 6
3	At Step 7	The customer choose to remove product from cart	· Remove product from cart · Recalculate total amount	Resumes at Step 6

7. Input data

Table A-Input data of ...

No	Data fields	Description	Mandatory	Valid condition	Example
1					

8. Output data

Table B-Output data of ...

No	Data fields	Description	Display format	Example
1	title			
2	quantity			
3	amount			
4	tax			
5	final price			

<p>9. Postconditions</p>
