

Use Case “Place Order”

I. Use case code: UC001

II. Brief Description

This use case describes the interaction between a customer and AIMS software when the customer wants to place an order.

III. Actors

1. Customer

IV. Preconditions

The customer has at least one product in the cart.

V. Basic Flow of Events

1. Customer reviews cart
2. AIMS displays cart
3. AIMS checks if the inventory quantity of any product is insufficient
4. Customer requests order
5. AIMS displays delivery information form
6. Customer enters and confirms the delivery information
7. AIMS calculates delivery fee, total product price including delivery fee.
8. Customer confirms the order
9. AIMS calls UC002 "Pay Order"
10. AIMS displays the order information
11. AIMS sends all order and transaction information to the customer's email
12. AIMS notifies successful order message

VI. Alternative flows

Table 1 -Alternative flows of events for UC Place Order

No	Location	Condition	Action	Resume location
1.	At step 4	If the AIMS software detects insufficient inventory for any item in the cart	<ul style="list-style-type: none">• AIMS shows notification of insufficient quantity of product in stock and requests customer to update the cart• Customer can update the cart and try placing the order again	Resumes at Step 1

2.	At step 6	If the user chooses to place a rush order	<ul style="list-style-type: none"> AIMS software inserts use case “Place Rush Order” - UC003 	Resumes at Step 7
3.	At step 7	If the information provided is invalid or missing during checkout	<ul style="list-style-type: none"> AIMS software requests customer to re-enter and update the transaction information 	Resumes at Step 7
4.	At any step	If the customer exits the software at any points	<ul style="list-style-type: none"> The AIMS software saves the cart information until the next session 	Resumes at Step 1

VII. Input data

Table 2 - Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Receiver Name		Yes		Nguyen Duc Thang
2.	Phone Number		Yes	10 digits	0987654321
3.	Province	Choose from a list	Yes		Hanoi
4.	Address		Yes		12, 34 Alley of Tran Thai Tong street. Cau Giay district
5.	Shipping instructions		No		

VIII. Output data

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

No	Data fields	Description	Display format	Example
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1.	Title	Title of a media product		DVD Phim Vượt ngục
2.	Price	Price of the corresponding media product	<ul style="list-style-type: none"> • Comma for thousands separator • Positive integer • Right alignment 	123,000
3.	Quantity	Quantity of the corresponding media	<ul style="list-style-type: none"> • Positive integer • Right alignment 	2
4.	Amount	Total money of the corresponding media	<ul style="list-style-type: none"> • Comma for thousands separator • Positive integer • Right alignment 	246,000
5.	Subtotal	Total amount of all products in the order		500,000 VND
6.	Shipping fee			30,000

Table 4 - Output data of general information of order and transaction info

No	Data fields	Description	Display format	Example
1.	Customer name			Nguyen Duc Thang
2.	Phone number			0915486681
3.	Province			Thai Binh
4.	Address			12, 34 Alley of Tran Thai Tong street. Cau Giay district

5.	Total amount		Right alignment Vietnamese currency (VND) Vietnamese locale	500,000 VND
6.	Transaction ID			
7.	Transaction content			
8.	Transaction date		dd/mm/yy	10/03/2024

IX. Post conditions

- Successful order: Customer receives confirmation email and order status is in "pending" state.
- Cancelled order: Customer receives confirmation email and full refund is processed.