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Use Case "Place Order"

1. Use case code

UC00X

2. Brief Description

This use case describes the interaction between customers and AIMS software when the customer wishes to place order.

3. Actors

3.1   Customers

3.2   System

4. Preconditions

Cart is not empty

5. Basic Flow of Events

1)   The customer request to place order

2)   The APP display the cart

3)   The customer confirms to cart

4)   The APP checks if there are enough products in the order

5)   The APP displays the form of delivery information

6)   The customer enters and submits delivery information

7)   The APP check the validity of delivery information

8)   The APP calculates shipping fees

9)   The APP confirms to place order

10)   The APP records order

11)   The APP displays the successful order notification.

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No		Location	Condition	Alternative flow	Resume location
1.		At Step 5.4	If the sys has not enough product	▪ Notice that a product is not enough ▪ Reduce number of invalid products	Resumes at Step 5.2
2.		At Step 5.7	If declare information in the wrong format	▪ show wrong message to user	Resumes at Step 5.5
3.		At Step 5.10	If the customer does not confirm		Resumes at Step 5.2
4.		At Step 5.11	If the payment is not successful	▪ show fail message	Resumes at Step 5.2
5.		At Step 5.5	If the customer	▪ Check if the current	Resume at Step 5.6

			choose rush delivery	products is avalable for rush delivery ▪ If there are any product not for rush delivery, inform customer that these products will be delivery in the standart delelivery method ▪ Choose delivery date for rush order.	

7. Input data

Table A-Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example

1.	Customer's name	String	Yes	No Special character	Nguyen Van A
2.	Phone	String	Yes	Only digits	0123456789
3.	Province	Choose from list	Yes		Ha Noi, Viet Nam
4.	Address	String	Yes		123 Tran Dai Nghia, Hai Ba Trung, Ha Noi, VN
5.	Shipping instructions	String	No		

8. Output data

Table B-Output data of a product

No	Data fields	Description	Display format	Example
1.	Name	Name of the product	String	DVD one piece
2.	Price	Price of the product	Positive Integer	100000(VND)

No	Data fields	Description	Display format	Example
3.	Quantity	The number of product	Positive Integer	4
4.	Total	Total price of the product	Positive Integer	400000(VND)

Table C-Output data of invoice

No	Data fields	Description	Display format	Example
1.	List of product	All information in table B	Name | Price|Quantity|Total	DVD one piece | 100000| 4|400000
2.	Subtotal	Price of all product without VAT	-Positive Integer -Right alignment	400000
3.	VAT	Value-Added Tax		40000
4.	Shipping fees	Total price of the product		30000
5.	Total Price	Sum of Subtotal, VAT and fees		470000

6.	Currency			VND
7.	Name	Recipient Name	String	TRAN VAN B
8.	Phone	Recipient's phone	String	0123456789
9.	Province		String	Nghe An
10.	Address	Delivery address	String	123 Duong A, Phuong B, Thanh pho C
11.	Shipping instructions		String	

Table D-Output data of cart

No	Data fields	Description	Display format	Example

				DVD Doraemon| 200000|3|600000
1.	List of product	All information in table B	Name | Price|Quantity|Total	DVD Doraemon| 200000|3|600000
2.	Subtotal	Price of all product without VAT	-Positive Integer -Right alignment	3000000
3.	VAT	Value-Added Tax		300000
5.	Total Price	Sum of Subtotal, VAT and fees		3350000
6.	Currency			VND

9. Postconditions
10. Activity diagram

act Place Order

Customers	AIMS software

Request to place order → Show information of cart

Confirm the cart → Checks the validity of products

<<VALID>> <<INVALID>> → Remove invalid products

Enters and submits delivery information ← Displays delivery

Check delivery information <<INVALID>>

Calculate fees

<<VALID>>

Confirms the order ← Display the invoice

<<CANCEL>>

<<CONFIRM>> → Call use case Pay Order

<<FAILED>>

<<SUCCESS>>

Save order

Makes the cart empty