

Họ và tên: Nguyễn Xuân Nghĩa

MSSV: 20184166

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

None

5. Basic Flow of Events

5.1 The customer request to place order

5.2 The AIMS software display the cart

5.3 The customer confirms to cart

5.4 The AIMS software checks the validity of the products

5.5 The AIMS software displays the form of delivery information

5.6 The customer enters and submits delivery information

5.7 The AIMS software check the validity of delivery information

5.8 The AIMS software calculates shipping fees

5.9 The customer confirms to place order

5.10 The AIMS software save order

5.11 The AIMS software makes the cart empty

5.12 The AIMS software 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 cart has any invalid product	<ul style="list-style-type: none"> ▪ Notice that a product is not available ▪ Remove invalid products 	Resumes at Step 5.2
2.		At Step 5.7	If declare information in the wrong format	<ul style="list-style-type: none"> ▪ show wrong format message 	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	<ul style="list-style-type: none"> ▪ show fail message 	Resumes at Step 5.2

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
4.	Address	String	Yes		123 duong A, phuong B, quan C, thanh pho D
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 Doraemon

2.	Price	Price of the product	Positive Integer	200000
3.	Quantity	The number of product	Positive Integer	3
4.	Total	Total price of the product	Positive Integer	600000

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 Doraemon 200000 3 600000
2.	Subtotal	Price of all product without VAT	-Positive Integer -Right alignment	3000000
3.	VAT	Value-Added Tax		300000
4.	Shipping fees	Total price of the product		50000
5.	Total Price	Sum of Subtotal, VAT and fees		3350000
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
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

