

1 Detail requirements

Details of the use cases given in following sections are specified below.

1.1 Specification of Use case UC001 - "Pay Oder"

1. Use case code

UC001

2. Brief Description

This use case describes the interactions between the AIMS software with the customer and Interbank when the customer desires to pay order. The precondition of this use case is that the AIMS software has calculated the total amount of money which the customer has to pay. On the other hand, there is no need of specification of output data nor the postcondition.

3. Actors

- VNPay
- Customer

4. Preconditions

5. Basic Flow of Events

1. The AIMS software displays the payment screen
2. The customer enters credit card info and confirms to pay order
3. The AIMS software asks the Interbank to process the payment transaction
4. The Interbank processes the payment transaction
5. The AIMS software saves the payment transaction
6. The AIMS software displays transaction information

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 card info is invalid	▪ The AIMS software notifies that the card info is invalid	At Step 1
2.	At Step 5	If the card info is wrong	▪ The AIMS software notifies that the card info is wrong	At Step 1
3.	At Step 5	If the balance is not enough	▪ The AIMS software notifies that the balance is not enough	At Step 1

7. Input data

Table A-Input data of payment form is shown as follows

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Card holder name		Yes	Maximum of 50 characters	DINH HUU HAI
2.	Card number		Yes	16 digits	11111111111111
3.	Expiration date		Yes	Consist of month and last 2 digits of year only	01/23
4.	Security code		Yes	3 digits	111

8. Output data

Table B-Output data of payment form is shown as follows.

No	Data fields	Description	Display format	Example
1.	Transaction ID			
2.	Card holder name			DINH HUU HAI
3.	Amount		Right alignment Vietnamese curency (VNĐ)	700.000 VNĐ
4.	Transaction Content			
5.	Transaction Date		dd/mm/yyyy	01/02/2003

9. Postconditions

1.2 Specification of Use case UC002 - “Place Oder”

1. Use case code

UC002

2. Brief Description

This use case describes the interaction between customersand AIMS software when the customer wishes to place order

3. Actors

- customers

4. Preconditions

5. Basic Flow of Events

1. The customer requests to place order in the cart
2. The AIMS software checks the availability of products in the cart
3. The AIMS software displays the form of delivery information
4. The customer enters and submits delivery information
5. The AIMS software calculates shipping fees
6. The AIMS software displays the invoice
7. The customer confirms to place order
8. The AIMS software calls UC "Pay order"
9. The AIMS software creates a new order
10. The AIMS software makes the cart empty
11. The AIMS software sends email about the order notification and information
12. The AIMS software displays the successful order notification and the order information

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1.	At Step 1	If the products are not available	▪ The AIMS software notifies that the products in the cart are not available and come back to the use case "View cart"	Use case ends
2.	At Step 5	If the delivery info is invalid	▪ The 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	▪ The AIMS software inserts use case "Place rush order"	At Step 5
4.	At Step 9	If the order payment is not successful	▪ The AIMS software notifies that the payment is not successful	At Step 8

7. Input data

Table A-Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Receiver Name		Yes		Dinh Huu Hai
2.	Province	Choose from a list	Yes		Nghe An
3.	Address		Yes		Thanh Chuong district, Nghe An province
4.	Shipping instruction		No		

8. Output data

Table B-Output data of displaying invoice

No	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Hai
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 	245,000
5.	Subtotal Before VAT	Total price of products in the cart before VAT	<ul style="list-style-type: none"> - Comma for thousands Separator - Positive integer - Right alignment 	2,100,000
6.	Subtotal	Total price of products in the cart with VAT		2,322,000

9. Postconditions