

Use Case “Place Rush Order”

1. Use case code

UC005

2. Brief Description

This Use Case describes the interaction between a customer and the system when the customer wants to use the express delivery service.

3. Actors

3.1 Customer: The person who places the express order request.

3.2 AIMS Software: The system performs express order processing operations.

4. Preconditions

- Customer has items in their cart
- Cart items are available for purchase

5. Basic Flow of Events

1. **Customers** access AIMS and add products to the shopping cart.
2. **Customers** view the shopping cart and click "Place Order".
3. **AIMS Software** displays the "Delivery Information" page with order summary information (subtotal, delivery shipping fee)..
4. **Customers** enter delivery information including:
 - Full name
 - Phone number
 - Province/City
 - Detailed address
 - Email
5. **Customers** choose "Rush Order Delivery" and click "Confirm".
6. **AIMS Software** checks the information and switches to the "Rush Delivery Information" page.
7. On the "Rush Delivery Information" page, **customers** enter:
 - Desired delivery time
 - Delivery instructions
8. **AIMS Software:**
 - Recalculate the express shipping fee (Rush Delivery Fee).
 - Display the product status supporting or not supporting express delivery.

9. **Customers** click "Confirm", the system switches to the "Invoice" page.
10. **Customers** click "Confirm" on the Invoice page to switch to the payment page with VNPAY.
11. **Customers** enter payment information and submit the request.
12. **AIMS Software** processes the payment via VNPAY and displays the results:
 - Sends an email with order notification and related information.
 - Empties the shopping cart.

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location	
1.	1	At step 4	Invalid input data	AIMS Software requests re-entry of data	Step 4
2.	2	At step 6	Customer selects a city other than Hanoi	AIMS Software displays a notification that rush order is only available in Hanoi	Step 4

7. Input data

Table A-Input data of ...

No	Data fields	Description	Mandatory	Valid condition	Example	
1.	1	Recipient Name	Full name of the recipient	Yes	Cannot be empty	Nguyen Van A
2.	2	Phone Number	Contact phone number	Yes	10 digits starting with 0	0901234567
3.	3	Province/City	Delivery address (only Hanoi)	Yes	Must be Hanoi	Hanoi

4.	4	Detailed Address	Specific delivery address	Yes	Cannot be empty	123 ABC Street, XYZ District
5.	5	Email	Contact email address	Yes	Valid email format	example@gmail.com

8. Output data

Table B-Output data of ...

No	Data fields	Description	Display format	Example
1. 1	Product Name	Name of the product	String	Shirt
2. 2	Price	Price of each product	Currency	500,000 VND
3. 3	Quantity	Quantity of the product	Integer	2
4. 4	Total Amount	Total payment amount	Currency	1,000,000 VND
5. 5	Shipping Fee	Standard delivery shipping fee	Currency	100,000 VND

9. Postconditions

- A new rush order is created and stored in the system.
- The customer's shopping cart is emptied.
- An email notification about the rush order and transaction details is sent to the customer.
- The customer receives confirmation of the successful rush order.