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| **Use Case “Place Rush Order”**   1. **Use case code**   UC005   1. **Brief Description**   This Use Case describes the interaction between a customer and the system when the customer wants to use the express delivery service.   1. **Actors**    1. **Customer:** The person who places the express order request.    2. **AIMS Software:** The system performs express order processing operations. 2. **Preconditions**  * Customer has items in their cart * Cart items are available for purchase  1. **Basic Flow of Events** 2. **Customers** access AIMS and add products to the shopping cart. 3. **Customers** view the shopping cart and click "Place Order". 4. **AIMS Software** displays the "Delivery Information" page with order summary information (subtotal, delivery shipping fee).. 5. **Customers** enter delivery information including:  * Full name * Phone number * Province/City * Detailed address * Email  1. **Customers** choose "Rush Order Delivery" and click "Confirm". 2. **AIMS Software** checks the information and switches to the "Rush Delivery Information" page. 3. On the "Rush Delivery Information" page, **customers** enter:  * Desired delivery time * Delivery instructions  1. AIMS Software:  * Recalculate the express shipping fee (Rush Delivery Fee). * Display the product status supporting or not supporting express delivery.  1. **Customers** click "Confirm", the system switches to the "Invoice" page. 2. **Customers** click "Confirm" on the Invoice page to switch to the payment page with VNPAY. 3. **Customers** enter payment information and submit the request. 4. **AIMS Software** processes the payment via VNPAY and displays the results:  * Sends an email with order notification and related information. * Empties the shopping cart.  1. **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 | | 1. 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 |  1. **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 | | 1. 2 | Phone Number | Contact phone number | Yes | 10 digits starting with 0 | 0901234567 | | 1. 3 | Province/City | Delivery address (only Hanoi) | Yes | Must be Hanoi | Hanoi | | 1. 4 | Detailed Address | Specific delivery address | Yes | Cannot be empty | 123 ABC Street, XYZ District | | 1. 5 | Email | Contact email address | Yes | Valid email format | example@gmail.com |  1. **Output data**   Table B-Output data of …   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. 1 | Product Name | Name of the product | String | Shirt | | 1. 2 | Price | Price of each product | Currency | 500,000 VND | | 1. 3 | Quantity | Quantity of the product | Integer | 2 | | 1. 4 | Total Amount | Total payment amount | Currency | 1,000,000 VND | | 1. 5 | Shipping Fee | Standard delivery shipping fee | Currency | 100,000 VND |  1. **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. |