# Use Case "Place order"

**1. Use case code**

UC001

**2. Brief Description**

This use case describes the interaction between AIMS and customer when the customer wants to place an order.

**3. Actors**

- **Customer**
- **VNPay**

**4. Preconditions**

- There is at least one item in the cart
- The inventory is sufficient

**5. Basic Flow of Events**

1. Customer requests to place order in the cart.
2. AIMS software checks the availability of products in the cart.
3. AIMS software displays the form of delivery information with order information.
4. Customer enters and submits delivery information (see Table 1).
5. AIMS software calculates and displays order and shipping fees (see Table 2).
6. The customer asks to pay order.
7. The AIMS software calls UC "Pay order".
8. The AIMS software creates a new order.
9. The AIMS software makes the cart empty.
10. The AIMS software sends email about the order notification and information.
11. The AIMS software displays the successful order notification, the order and the transaction information (see Table 3).

**6. Alternative flows**

**Table 4-Alternative flows of events for UC Place order**

| No | Location | Condition | Action | Resume location |
|----|----------|-----------|--------|-----------------|
| 1. | At Step 3 | If the products are not available | • The AIMS software notifies that the the products in the cart are not available and stay at the use case "View cart" | Use case end |
| 2. | At Step 4 | If the delivery info is invalid | • AIMS software notifies that the delivery info is invalid (blank or wrong format) | Resume at step 3 |
| 3. | At Step 5 | If the user chooses to place a rush order | • AIMS software inserts use case "Place rush order" | Resume at step 6 |

| 4. | At Step 7 | If the order payment is not successul or goes back from payment | | | Resume at step 5 |
|---|---|---|---|---|---|

## 7. Input data

**Table 1-Input data of delivery information**

| No | Data fields | Description | Mandatory | Valid condition | Example |
|---|---|---|---|---|---|
| 1. | Receiver name | | Yes | | Nguyen Thanh Dat |
| 2. | Phone numbers | | Yes | 10 digits | 0989160060 |
| 3. | Province | Choose from a list | Yes | | Ha Noi |
| 4. | Address | | Yes | | Le Trong Tan, Thanh Xuan, Ha Noi |
| 5. | Shipping instructions | | No | | Weekdays delivery |

## 8. Output data

**Table 2-Output data of order information and shipping fee**

| No | Data fields | Description | Display format | Example |
|---|---|---|---|---|
| 1. | Title | Title of a product | | Chung ta cua tuong lai |
| 2. | Price | Price of the corresponding media product | • Comma for thousands separator<br>• Positive integer<br>• Right alignment | 300,000 |
| 3. | Quantity | Quantity of the corresponding media | • Positive integer<br>• Right alignment | 2 |
| 4. | Amount | Total money of the corresponding media | • Comma for thousands separator<br>• Positive integer<br>• Right alignment | 600,000 |
| 5. | Subtotal | Total amount of all products in the order | • Comma for thousands separator<br>• Positive integer<br>• Right alignment | 2,345,678 |
| 6. | Shipping fee | | • Comma for thousands separator<br>• Positive integer<br>• Right alignment | 40,000 |

**Table 3-Output data of order and transaction information**

| No | Data fields | Description | Display format | Example |
|---|---|---|---|---|
| 1. | Customer name | | | Nguyen Thanh Dat |
| 2. | Phone number | | | 0989160060 |
| 3. | Province | | | Ha Noi |
| 4. | Address | | | Le Trong Tan, Thanh Xuan, Ha Noi |
| 5. | Total amount | | • Comma for thousands separator<br>• Right alignment<br>• Vietnamese currency (VNĐ)<br>• Vietnamese locale | 2.000.000 VNĐ |
| 6. | Transaction ID | | | |
| 7. | Transaction content | | | |
| 8. | Transaction date | | dd/mm/yyyy | 09/03/2024 |

## 9.        Postconditions

A new order is created, and its information is sent via email to the customer or nothing happens if payment is not successful