# Use case - Place Order

1. **Use case code**
   UC01
2. **Brief Description**
   The use case describes the interactions between customers and AIMS software when the customer wants to place an order.
3. **Actors**
   **3.1. Customer**
4. **Preconditions**
   There is at least one item in the cart.
5. **Basic flow**
   Step 1. Customer requests to place an order in the cart.
   Step 2. AIMS software checks the availability of products in the cart.
   Step 3. AIMS software displays the form of delivery information with order information.
   Step 4. Customer enters and submits delivery information. (Table 1)
   Step 5. AIMS software calculates and displays order and shipping fees. (Table 2)
   Step 6. The customer confirms the invoice and asks to pay order.
   Step 7. The AIMS software calls UC "Pay Order".
   Step 8. The AIMS software saves order and creates a new order.
   Step 9. The AIMS software makes the cart empty.
   Step 10. The AIMS software sends email about the order notification and information.
   Step 11. The AIMS software displays the successful order notification, the order and the transaction information. (Table 3)

6. **Alternative flow**

| No | Location | Condition | Action | Resume Location |
|----|----------|-----------|--------|-----------------|
| 1. | At Step 3 | If the products are not available | The AIMS software notifies that the products in the cart are not available and stay at the use case "View cart" | Use case ends |
| 2. | At Step 5 | If the delivery info is invalid | 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 | AIMS software inserts use case "Place rush order" | At Step 6 |
| 4. | At Step 8 | If the order payment is not successful or goes back from payment | AIMS software notifies that the order payment is unsuccessful | At Step 5 |

7. **Input**

Table 1. Input data of delivery information

| No | Data fields | Description | Mandatory | Valid condition | Example |
|---|---|---|---|---|---|
| 1. | Receiver name | | Yes | | Mai Duc An |
| 2. | Phone number | | Yes | 10 digits | 0353024468 |
| 3. | Province | Choose from a list | Yes | | Hanoi |
| 4. | Address | | Yes | | 1st Dai Co Viet, Hai Ba Trung, Hanoi |
| 5. | Shipping instructions | | No | | |

## 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 media product | | DVD Phim Vượt ngục |
| 2. | Price | Price of the corresponding media product | - Comma for thousands separator<br>- Positive integer<br>- Right alignment | 123,000 |
| 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 | 246,000 |
| 5. | Subtotal | Total amount of all products in the order | - Comma for thousands separator<br>- Positive integer<br>- Right alignment | 2,316,000 |
| 6. | Shipping fee | | - Comma for thousands separator<br>- Positive integer<br>- Right alignment | 30,000 |

Table 3. Output data of general information of order and transaction info

| No | Data fields | Description | Display format | Example |
|---|---|---|---|---|
| 1. | Customer name | | | Mai Duc An |
| 2. | Phone number | | | 0353024468 |
| 3. | Province | | | Hanoi |
| 4. | Address | Address of receiver | | 1st Dai Co Viet, Hai Ba Trung, Hanoi |
| 5. | Total amount | Total amount of all products in the order | Right alignment Vietnamese currency (VND) Vietnamese locale | 1.200.000 VND |
| 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.