**Use Case “Place Order”**

## Use case code

UC001

## Brief Description

This use case describes the interaction between the customer and the AIMS software when the customer places an order. It covers the steps from adding products to the cart, providing delivery information, calculating shipping fees, and completing the order.

## Actors

* Customer

## Preconditions

* There is at least one item in the customer's cart.
* The Customer is on the "View Cart" screen.

## Basic Flow of Events

Step 1. The customer requests to place an order for the products in the cart.

Step 2. The AIMS software checks the availability of each product in the cart against the current inventory.

Step 3. AIMS software displays the form for delivery information along with order information.

Step 4. The customer enters and submits delivery information.

Step 5. The AIMS software validates the delivery information.

Step 6. AIMS software calculates and updates the order with shipping fees.

Step 7. Customer reviews and requests to pay for the order.

Step 8. AIMS software calls the “Pay Order” use case.

Step 9. AIMS software creates and saves the new order.

Step 10. AIMS software empties the cart.

Step 11. AIMS software sends an order notification email to the customer.

Step 12. AIMS software displays successful order notification along with the order and transaction details.

## Alternative Flows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Location | Condition | Action | Resume location |
| 1. | At Step 2 | If the products in the cart are unavailable | Notifies the customer and stays at the “View Cart” use case | Use case ends |
| 2. | At Step 4 | If delivery information is invalid | Notifies the customer and requests re-entry of the information | Step 3 |
| 3. | At Step 6 | If the customer chooses to place a rush order | Proceeds with the rush order process | Step 7 |
| 4. | At Step 8 | If the order payment is unsuccessful | Allows the customer to retry the payment | Step 6 |

## Input Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Data fields | Description | Mandatory | Valid condition | Example |
| 1 | Receiver Number |  | Yes | string | Do Minh Hieu |
| 2 | Phone Number |  | Yes | 10 digits | 0987654321 |
| 3 | Province | Choose from a list | Yes |  | Hanoi |
| 4 | Address |  | Yes | string | 34 Alley of Tran Thai Tong street, Cau Giay district |
| 5 | Shipping Instructions |  | No | string | Leave with concierge |
| 6 | Delivery Time | Rush Order | Yes | timestamp | 10:00 AM - 12:00 PM |

## Output Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Data fields | Description | Display format | Example |
| 1 | Title | Title of a media product |  | DVD Movie Escape |
| 2 | Price | Price of the corresponding media product | * Comma for thousands separator * Positive integer * Right alignment | 123,000 |
| 3 | Quantity | Quantity of the corresponding media | * Positive integer * Right alignment | 2 |
| 4 | Amount | Total money of the corresponding media | * Comma for thousands separator * Positive integer * Right alignment | 246,000 |
| 5 | Subtotal | Total amount of all products in the order | * Comma for thousands separator * Positive integer   Right alignment | 2,316,600 |
| 6 | Shipping fee |  | * Comma for thousands separator * Positive integer   Right alignment | 30,000 |
| 7 | Total |  | * Comma for thousands separator * Positive integer * Right alignment | 2,346,600 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Data field | Description | Display format | Example |
| 1. | Customer name |  | String | Do Minh Hieu |
| 2. | Phone number |  | 10 digits | 0987654321 |
| 3. | Province |  | String | Hanoi |
| 4. | Address |  | String | 34 Alley of Tran Thai Tong street, Cau Giay district |
| 5. | Total amount |  | * Right alignment * Vietnamese currency * Vietnamese locale | 1.200.000 VND |
| 6. | Transaction ID |  |  |  |
| 7. | Transaction content |  |  |  |
| 8. | Transaction date |  | dd/mm/yyyy | 05/10/2023 |

*Table 3 – Transaction Information*

## Post-Conditions

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