**Use Case “Place Order”**

## Use case code

UC005

## Brief Description

This use case describes the interaction between the customer and the AIMS software when the customer chooses to place a rush order, requesting delivery within 2 hours. The system checks if rush delivery is available for the products and delivery location, calculates the rush delivery fee, and processes the order accordingly.

## Actors

* Customer

## Preconditions

* There is at least one item in the customer's cart.
* Rush order delivery is available for the selected products and location.

## Basic Flow of Events

Step 1. The customer requests to place a rush order from the cart.

Step 2. The AIMS software checks the availability of the products for rush delivery.

Step 3. The AIMS software checks if the delivery address supports rush delivery (inner city of Hanoi).

Step 4. If eligible, the AIMS software displays the rush order delivery information form, including available time slots for delivery.

Step 5. The customer enters rush delivery time and instructions (if any).

Step 6. The AIMS software calculates and updates the order information with the rush delivery fee.

Step 7. The customer reviews and confirms the rush order.

Step 8. The AIMS software processes the order, updates the inventory, and sends a confirmation email.

Step 9. The rush order is delivered within 2 hours, as per the selected delivery time.

## Alternative Flows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Location | Condition | Action | Resume location |
| 1. | At Step 3 | If rush delivery is not available for the delivery address. | The AIMS software notifies the customer that rush delivery is not available.  The customer is prompted to update the delivery address or continue with regular delivery. | End use case |
| 2. | At Step 2 | If some products in the cart are not eligible for rush delivery. | The AIMS software informs the customer which items are not eligible for rush delivery.  The customer can choose to continue with eligible products for rush delivery or adjust the cart.  The AIMS software recalculates the delivery fees accordingly. | At Step 3 or end use case |

## 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 | Rush delivery fee |  | * Comma for thousands separator * Positive integer   Right alignment | 30,000 |
| 7 | Selected delivery time |  | Date and time |  |
| 8 | 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 |
|  | Customer name |  | String | Do Minh Hieu |
|  | Phone number |  | 10 digits | 0987654321 |
|  | Address |  | String | 34 Alley of Tran Thai Tong street, Cau Giay district |
|  | Total amount |  | * Right alignment * Vietnamese currency * Vietnamese locale | 1.200.000 VND |
|  | Transaction ID |  |  |  |
|  | Transaction content |  |  |  |
|  | Transaction date |  | dd/mm/yyyy | 05/10/2023 |

## Post-Conditions

* **Success:** A rush order is created, and the customer receives confirmation via email. The order is processed for delivery within the selected 2-hour timeframe.
* **Failure:** If the rush order cannot be completed (due to invalid address or product availability), the customer is prompted to adjust the order.