**Use Case “Place Order”**

1. **Use case code**UC002
2. **Brief Description**

UC “Place Order” describes the interaction between customers and AIMS software when the customer wishes to place order.

1. **Actors**
   1. **Customer**
2. **Preconditions**

None

1. **Basic Flow of Events**

* Step 1. The customer request to place order in the view cart screen.
* Step 2. The AIMS software checks the availability of products in the cart.
* Step 3. The AIMS software displays the form of delivery information.
* Step 4. The customer enters and submits delivery information.
* Step 5. The AIMS software checks the validity of delivery information.
* Step 6. The AIMS software calculates shipping fees.
* Step 7. The AIMS software displays the invoice.
* Step 8. The customer confirms to place order.
* Step 9. The AIMS software calls UC “Pay order”.
* Step 10. The AIMS software save order.
* Step 11. The AIMS software makes the cart empty.
* Step 12. The AIMS software displays the successful order notification.

1. **Alternative flows**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume location** |
| 1. | At Step 2 | If there is media of which quantity in the stock is less than the ordered quantity | § The AIMS software asks the customer to update the cart.  § The customer updates the cart. | At Step 2 |
| 2. | At Step 5 | If customer choose to place a rush order | § Insert use case “Place Rush Order” | At Step 6 |
| 3. | At Step 5 | If a mandatory field is left bank | § The AIMS software asks the customer to fill all the mandatory blank. | At Step 3 |
| 4. | At Step 5 | If the phone number is invalid | § The AIMS software asks the customer to enter a valid phone number. | At Step 3 |

1. **Input data**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
| 1. | Receiver Name |  | Yes |  | Do Minh Hieu |
| 2. | Phone Number |  | Yes |  | 0987654321 |
| 3. | Province | Choose from a list | Yes |  | Hanoi |
| 4. | Address |  | Yes |  | 12, 34 Alley of Tran Thai Tong street, Cau Giay district |
| 5. | Shipping instructions |  | No |  |  |

1. **Output data**

*Output data of displaying invoice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 § 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 Before VAT | Total price of products in the cart before VAT | § Comma for thousands separator § Positive integer § Right alignment | 2,106,000 |
| 6. | Subtotal | Total price of products in the cart with VAT | 2,316,600 |
| 7. | Shipping fees |  | 30,000 |
| 8. | Total | Sum of subtotal and shipping fees | 2,346,600 |
| 9. | Currency |  |  | VND |
| 10. | Name |  |  | Do Minh Hieu |
| 11. | Phone number |  |  | 0987654321 |
| 12. | Province | Choose from a list |  | Hanoi |
| 13. | Address |  |  | 12, 34 Alley of Tran Thai Tong street, Cau Giay district |
| 14. | Shipping instructions |  |  |  |

*Output data of displaying cart*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1. | Title | Title of a media product |  | CD Em về tinh khôi– Hà Trần |
| 2. | Price | Price of the corresponding media product | * Comma for thousands separator * Positive integer * Right alignment | 120,000 |
| 3. | Quantity | Quantity of the corresponding media | * Positive integer * Right alignment | 2 |
| 4. | Amount | Total money of the corresponding media | * Positive Integer * Right alignment | 240,000 |
| 5. | Subtotal Before VAT | Total price of products in the cart before VAT | * Comma for thousands separator * Positive integer * Right alignment | 2,106,000 |
| 6. | Subtotal | Total price of products in the cart after VAT | 2,316,600 |
| 7. | Currency |  |  | VND |

1. **Postconditions**

The AIMS software calculated the total amount of money which the customer has to pay.

**Use Case “Place Rush Order”**

1. **Use case code**UC003
2. **Brief Description**This use case describes the interaction between Customer and AIMS Software when user wishes to place a rush order.
3. **Actors**
   1. **Customer**
4. **Preconditions**

The AIMS system has saved the delivery information of the customer.

1. **Basic Flow of Events**Step 1. The AIMS software checks if all media items and the shipping address support rush order.  
   Step 2. The AIMS software displays the screen for rush order.

Step 3. The customer update rush order information.

Step 4. The AIMS software check for input validity.  
Step 5. The AIMS software changes the formula to calculate the shipping fees.

1. **Alternative flows**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume**  **location** |
| 1. | At Step 1 | If there aren’t any items support rush order | The AIMS software notifies that no item supports rush order. | End use case |
| 2. | At Step 1 | If the shipping address doesn’t support rush order | The AIMS software notifies that the shipping address doesn’t support rush order. | End use case |
| 3. | At Step 1 | Only some items support rush order | The AIMS software put non-supported items in normal order. | At Step 2 |
| 4. | At step 4 | If the input is invalid | * The AIMS software ask customer to update input. * Customer updates the input. | At Step 2 |

1. **Input data**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
| 1. | Receiver Name |  | Yes |  | Do Minh Hieu |
| 2. | Phone Number |  | Yes |  | 0987654321 |
| 3. | Province | Choose from a list | Yes |  | Hanoi |
| 4. | Address |  | Yes |  | 12, 34 Alley of Tran Thai Tong street, Cau Giay district |
| 5. | Delivery time |  | Yes | From 7AM to 10 PM | 5 to 7 P.M Tuesday, Oct 12th 2021 |
| 6. | Shipping instructions |  | No |  |  |

1. **Output data**

None

1. **Postconditions**

None