**Use case “Place Order”**

1. **Use case code:**

UC001

1. **Brief Description:**

This use case describes the interaction between Customer and AIMS Software when customer wishes to place an order

1. **Actors**
   1. **Customer**
2. **Preconditions**
3. **Basic Flow of Events**

Step 1. The customer views the cart.

Step 2. The AIMS software checks the availability of products in the cart

Step 3. The AIMS software displays the cart

Step 4. The customer requests to place order

Step 5. The AIMS software displays the form of delivery information

Step 6. The customer enters and submits delivery information

Step 7. The AIMS software calculates shipping fees

Step 8. The AIMS software displays the invoice

Step 9. The customer confirms to place order

Step 10. The AIMS software calls use case “Pay order”

Step 11. The AIMS software creates a new order

Step 12. The AIMS software makes the cart empty

Step 13. The AIMS software displays the successful order notification

1. **Alternative flows**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume location** |
| **1** | At Step 3 | 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. | Resumes at Step 2 |
| **2** | At Step 7 | if customer chooses to place a rush order | Insert use case “Place rush order” | Resumes at Step 7 |
| **3** | At Step 7 | If a mandatory field is left blank | The AIMS software asks the customer to fill all the mandatory blank. | Resumes at Step 5 |
| **4** | At Step 7 | If the phone number is invalid | The AIMS software asks the customer to enter a valid phone number. | Resumes at Step 5 |

1. **Input data**

*Table1 - Input data of delivery information*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
| 1 | Receiver Name |  | Yes |  | Tran Thi Hang |
| 2 | Phone number |  | Yes |  | 0396652104 |
| 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 |  |  |
| 6 | Rush Order | Tick to choose | Yes |  | ❌ |

1. **Output data**

*Table2 - 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 | 2,100,000 |
| 6 | Subtotal | Total price of products in the cart after VAT | 2,310,000 |
| 7 | Shipping fees (rush order) |  | 50,000 |
| 8 | Total | Sum of subtotal and shipping fees | 2,360,000 |
| 9 | Currency |  |  | VND |
| 10 | Name |  |  | Tran Thi Hang |
| 11 | Phone number |  |  | 0396652104 |
| 12 | Province | Choose from a list |  | Hanoi |
| 13 | Address |  |  | 12,34 Alley of Tran Thai Tong street, Cau Giay district |
| 14 | Shipping instructions |  |  |  |

*Table3 - 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 | * Comma for thousands separator * 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 | 2,316,000 |
| 7 | Currency |  |  | VND |

1. **Postconditions**