**Use Case “Place order”**

**1. Use case code**

UC002

**2. Brief Description**

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

**3. Actors**

3.1. Customer

3.2. AIMS software

**4. Preconditions**

There is an active network connection to the Internet. The customer must view the cart first.

**5. Basic Flow of Events**

Step 1. The customer requests to place an order on 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 saves order

Step 11. The AIMS software makes the cart empty

Step 12. The AIMS software displays the successful order notification.

**6. Alternative flows**

*Table 1-Alternative flows of events for UC “Place order”*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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. | Resumes at step 2 |
| 2. | At step 4 | If the customer chooses to place a rush order | -The AIMS software inserts UC “Place rush order” | Go to step 6 |
| 2. | At step 5 | If a mandatory field is left  blank | The AIMS software asks the  customer to fill all the mandatory blank. | Resumes at Step 3 |
| 3. | At step 5 | If the phone number is  invalid | The AIMS software asks the  customer to enter a valid phone number. | Resumes at Step 3 |

**7. Input data**

*Table 2-Input data of delivery information*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Data fields | Description | Mandatory | Valid condition | Example |
| 1. | Receiver Name |  | Yes |  | LE THANH MAI |
| 2. | Phone number |  | Yes |  | 0912345789 |
| 3. | Province | Choose from a list | Yes |  | Ha Noi |
| 4. | Address |  | Yes |  | 12 Le Thanh Nghi street, Hai Ba Trung district |
| 5. | Shipping instructions |  | No |  |  |

**8. Output data**

*Table 3-Output data of displaying invoice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Data fields | Description | Display format | Example |
| 1. | Title | Title of a media product |  | DVD Phim Doraemon |
| 2. | Price | Price of corresponding media product | - Comma for thousands separator  - Positive integer  - Right alignment | 100,000 |
| 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 | 200,000 |
| 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 |  |  | Le Thanh Mai |
| 11. | Phone number |  |  | 0912345789 |
| 12. | Province | Choose from a list |  | Ha Noi |
| 13. | Address |  |  | 12 Le Thanh Nghi street, Hai Ba Trung district |
| 14. | Shipping instructions |  |  |  |

*Table 4-Output data of displaying cart*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Data fields | Description | Display format | Example |
| 1. | Title | Title of a media product |  | DVD Phim Doraemon |
| 2. | Price | Price of corresponding media product | - Comma for thousands separator  - Positive integer  - Right alignment | 100,000 |
| 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 | 200,000 |
| 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. | Currency |  |  | VND |

**9. Postconditions**

**-** The logs have been updated accordingly.