**Họ và tên: Nguyễn Viết Huy**

**MSSV: 20184120**

**Use Case “Place Order”**

1. **Use case code**

UC00X

1. **Brief Description**

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

1. **Actors**
   1. Customers
   2. System
2. **Preconditions**

Cart is not empty

1. **Basic Flow of Events**
   1. The customer request to place order
   2. The APP display the cart
   3. The customer confirms to cart
   4. The APP checks if there are enough products in the order
   5. The APP displays the form of delivery information
   6. The customer enters and submits delivery information
   7. The APP check the validity of delivery information
   8. The APP calculates shipping fees
   9. The APP confirms to place order
   10. The APP records order
   11. The APP displays the successful order notification.
2. **Alternative flows**

Table N-Alternative flows of events for UC Place order

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** |  | **Location** | **Condition** | **Alternative flow** | **Resume location** |
|  |  | At Step 5.4 | If the sys has not enough product | * Notice that a product is not enough * Reduce number of invalid products | Resumes at Step 5.2 |
|  |  | At Step 5.7 | If declare information in the wrong format | * show wrong message to user | Resumes at Step 5.5 |
|  |  | At Step 5.10 | If the customer does not confirm |  | Resumes at Step 5.2 |
|  |  | At Step 5.11 | If the payment is not successful | * show fail message | Resumes at Step 5.2 |
|  |  | At Step 5.5 | If the customer choose rush delivery | * Check if the current products is avalable for rush delivery * If there are any product not for rush delivery, inform customer that these products will be delivery in the standart delelivery method * Choose delivery date for rush order. | Resume at Step 5.6 |

1. **Input data**

Table A-Input data of delivery information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
|  | Customer's name | String | Yes | No Special character | Nguyen Van A |
|  | Phone | String | Yes | Only digits | 0123456789 |
|  | Province | Choose from list | Yes |  | Ha Noi, Viet Nam |
|  | Address | String | Yes |  | 123 Tran Dai Nghia, Hai Ba Trung, Ha Noi, VN |
|  | Shipping  instructions | String | No |  |  |

1. **Output data**

Table B-Output data of a product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
|  | Name | Name of the product | String | DVD one piece |
|  | Price | Price of the product | Positive Integer | 100000(VND) |
|  | Quantity | The number of product | Positive Integer | 4 |
|  | Total | Total price of the product | Positive Integer | 400000(VND) |

Table C-Output data of invoice

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1. | List of product | All information in table B | Name | Price|Quantity|Total | DVD one piece | 100000| 4|400000 |
| 2. | Subtotal | Price of all product without VAT | -Positive Integer  -Right alignment | 400000 |
| 3. | VAT | Value-Added Tax | 40000 |
| 4. | Shipping fees | Total price of the product | 30000 |
| 5. | Total Price | Sum of Subtotal, VAT and fees | 470000 |
| 6. | Currency |  |  | VND |
| 7. | Name | Recipient Name | String | TRAN VAN B |
| 8. | Phone | Recipient’s phone | String | 0123456789 |
| 9. | Province |  | String | Nghe An |
| 10. | Address | Delivery address | String | 123 Duong A, Phuong B, Thanh pho C |
| 11. | Shipping  instructions |  | String |  |

Table D-Output data of cart

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1. | List of product | All information in table B | Name | Price|Quantity|Total | DVD Doraemon| 200000|3|600000 |
| 2. | Subtotal | Price of all product without VAT | -Positive Integer  -Right alignment | 3000000 |
| 3. | VAT | Value-Added Tax | 300000 |
| 5. | Total Price | Sum of Subtotal, VAT and fees | 3350000 |
| 6. | Currency |  |  | VND |

1. **Postconditions**
2. **Activity diagram**

Diagram

Description automatically generated