**Use Case “Place order”**

1. **Use case code**

UC001

1. **Brief Description**

This case describes interaction between the Customer and the AIMS System when Customer wish to place an order comprising chosen items.

1. **Actors**

* Customer
* VNPay

1. **Preconditions**

* There is at least one product in cart
* Customer wishes to place order

1. **Basic Flow of Events**

* Step 1: Customer selects the products they wish to purchase (see Table 1)
* Step 2 : Customer requests to place order in the cart
* Step 3 : AIMS software checks the availability of products in the cart
* Step 4 : AIMS software displays the form of delivery information with order information
* Step 5 : Customer enters and submits delivery information (see Table 2)
* Step 6 : AIMS software calculates and displays order and shipping fees (see Table 3)
* Step 7 : The customer asks to pay order
* Step 8 : The AIMS software calls Use case “Pay order”
* Step 9 : The AIMS software creates a new order
* Step 10 : The AIMS software makes the cart empty
* Step 11 : The AIMS software sends email about the order notification and information
* Step 12 : The AIMS software displays the successful order notification, the order and the transaction information (see Table 4).

1. **Alternative flows**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume location** |
| 1 | At step 3 | If there is no product in cart | AIMS Software notify the customer | Resume at step 1 |
| 2 | At step 4 | The Customer requests rush order | Call Use Case “Request Rush Order” | Resume at step 7 |
| 3 | At step 6 | The Customer wants to modify delivery address | Back to step 4 | Resume at step 4 |

1. **Input data**

**Table 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
| 1 | Product name | Choose from product list | Yes |  | Book |
| 2 | Quantity | Integer number | Yes | Positive integer number | 3 |

**Table 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
| 1 | Receiver name |  | Yes |  | Nguyễn Đình Ngọc Sơn |
| 2 | Phone number |  | Yes | Sequence of 10 digit | 0868320803 |
| 3 | Province | Choose from a list | Yes |  | Bắc Ninh |
| 4 | Address | Address provided by customer | Yes |  | Khu phố Rích Gạo, Phù Chẩn, Thành phố Từ Sơn, Bắc Ninh |
| 5 | Shipping instructions |  | No |  |  |

1. **Output data**

**Table 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1 | Product | Name of product | String | Book |
| 2 | Price |  | VND | 100,000 VND |
| 3 | Quantity | Number of product | Positive integer number | 1 |
| 4 | Subtotal | Total price | Positive number denominated in VND with “,” delimiter | 200,000 VND |
| 5 | Shipping fee |  | Positive number denominated in VND with “,” delimiter | 20,000 VND |

**Table 4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1 | Customer name | Name of product | String | Nguyễn Đình Hồng Phong |
| 2 | Phone number |  | A sequence of digits with a length of 10 | 0358337038 |
| 3 | Province | Choose from a list | String | Hà Nội |
| 4 | Address | Address filled by customer | A string where each field is distinguished by a “,” delimiter | 86 Lĩnh Nam, Mai Động, Hoàng Mai, Hà Nội |
| 5 | Total amount | Total amount of products in the order and shipping fee | Positive number denominated in VND with “,” delimiter | 220,000 VND |
| 6 | Transaction ID | Depend on VNPay | A sequence of digits with a length of 15 | 234567456781123 |
| 7 | Transaction content | The content includes identifiable details to assist the receiver in identifying easily the sender and the nature of the transaction. | String | Nguyễn Đình Hồng Phong’s transaction  Book of psychology |
| 8 | Transaction date |  | dd/mm/yyyy | 10/07/2024 |

1. **Postconditions**

* New order is created by AIMS System
* Customer can see notice from AIMS System