Use Case "Place order"

1. **Use case code**
   UC001
2. **Brief Description**
   This case describes interaction between the Customer and the AIMS System when Customer wish to place an order comprising chosen items.
3. **Actors**
   - Customer
   - AIMS System
   - VNPay
4. **Preconditions**
   - Customer wishes to place order
5. **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 UC "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).
6. **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 request rush order	Call Use Case "Request Rush Order"	Resume at step 7
3	At step 6	The Customer want to modify delivery address	Back to step 4	Resume at step 4

7. **Input data**

Table 1

No	Data fields	Description	Mandatory	Valid condition	Example
1	Product name	Choose from product list	Yes		
2	Quantity	Integer number	Yes	Greater than 0	3

Table 2

No	Data fields	Description	Mandatory	Valid condition	Example
1	Receiver name		Yes		Nguyễn Văn A
2	Phone number		Yes	Greater than 0	3
3	Address		Yes		86 Lĩnh Nam, Mai Động, Hoàng Mai, Hà Nội

8. 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	VND	200,000 VND
4	Shipping fee		VND	20,000 VND

Table 4

No	Data fields	Description	Display format	Example
1	Customer	Name of product	String	Nguyễn Văn A
2	Phone number		VND	100,000 VND
3	Address	Number of product	String	86 Lĩnh Nam, Mai Động, Hoàng Mai, Hà Nội
4	Total amount	Total amount of products in the order and shipping fee	VND	220,000 VND
6	Transaction	Depend on VNPay		

9. Postconditions

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