

# 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
- VNPay

## 4. Preconditions

- There is at least one product in cart
- 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 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).

## 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 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

## 7. 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		

## 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	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

## 9. Postconditions

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