## Use Case "PAY ORDER"

#### 1. Use case code

UC002

### 2. Brief description

This use case outlines the interaction between the customer, AIMS software, and VNPay when a customer opts to pay for an order via credit card.

#### 3. Actors:

Customer: Initiates the payment by providing necessary details.

VNPay: Manages the payment processing through credit cards.

#### 4. Preconditions:

- The customer has already placed an order and received an invoice.
- The VNPay gateway is available for credit card processing.

#### 5. Basic Flow of Events:

- 1. The system displays the invoice and temporarily saves it (Refer to Table 3).
- 2. The customer selects the credit card payment option.
- 3. The system connects to VNPay for processing the payment.
- 4. The customer provides the required payment details as prompted by VNPay (Refer to Table 2).
- 5. VNPay validates the payment information and processes the transaction.
- 6. Upon successful payment, the system receives a confirmation from VNPay.
- 7. The system returns to the "Place Order" use case.

#### 6. Alternative Flows:

Table 1: Alternative flow of events in use case "Pay Order"

No	Location	Condition	Action	Resume
				location

# 7. Input Data:

Table 2: Input data of payment information

No.	Data Fields	Description	Mandatory	Valid Condition	Example
1	Credit Card Number	Customer's credit card number	Yes	Valid credit card format	0123 4567 8910 1112
2	Expiry Date	Expiration date of the credit card	Yes	Valid future date	"12/29"
3	CVV	Card Verification Value (security code)	Yes	3-4 digit number	"123"
4	Cardholder Name	Name of the credit card holder	Yes	Not empty	VU VIET ANH

## 8. Output Data:

Table 3: Output data of invoice

No.	Data Field	Description	Display Format	Example

1	Cart Details	List of selected products and quantities	Table format	See Table 4
2	Subtotal (before VAT)	Total price before VAT	Currency, comma-separated	"9,900,000"
3	Delivery Fee	Cost of delivery	Currency, comma-separated	"100,000 VND"
4	Total Payment Amount	Total price (including VAT and delivery)	Currency, comma-separated	"Total amount: 10,000,000 VND"
5	Delivery info			User input in UC "Place order"

Table 4: Output data of cart details

No.	Data Field	Description	Display Format	Example
1	Product Name	Name of the product in the cart	Text	"Phone A"
2	Quantity	Number of units of the product ordered	Numeric	"2"
3	Unit Price	Price per unit of the product	Currency	"10,000,000 VND"
4	Amount	Total money of the corresponding item	Currency	"20,000,000 VND"

### 9. Post conditions:

- The payment is successfully processed, and the order status is updated to "Paid".
- · The invoice and payment details are stored in the system.
- · A confirmation message is displayed to the customer, and a receipt may be sent via email.