USE-CASE "PAY ORDER"

1. **Use-case code**
   - UC002
2. **Brief descriptions**
   - This use case describes the interactions between the AIMS software with the customer and VNPay when the customer desire to pay an order.
3. **Actors**
   - Customer
   - VNPay
4. **Preconditions**
   - The customer has selected VNPay as the payment method for their order.
   - The user must be authenticated and have the necessary permissions to place an order.
   - The customer's order total is calculated and available for payment.
5. **Basic flow of events**
   - Step 0. AIMS software check the integrated VNPay account
   - Step 1. AIMS software displays the invoice (See the Output)
   - Step 2. Customer asks to pay the invoice
   - Step 3. AIMS software redirects to VNPay with payment information
   - Step 4. VNPay notifies the transaction result
   - Step 5. AIMS software saves the payment transaction
6. **Alternative flows**

No	Location	Condition	Action	Resume location
0	At step 0	If there is not intergrated account	• AIMS notify that customer should add the VNPay account	Use-case end
1	At step 4	If the result from VNPay is failure	• If the error related to payment information, then AIMS system notifies to customer and requires the customer check the payment information.	Step 1

			• If the error related to server, then notify that this error	
2	At Step 5	If the customer cancels the payment transaction	Software come back to place order	At Step 1

7. Input data

No	Data fields	Description	Mandatory	Action	Example
1.	VNPay account	LIst of VNPay accounts that integrated to customer account	Yes	Select	ACC1

8. Output data

No	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Phim
2.	Price	Price of the corresponding media product	■Comma for thousands separator ■Positive integer ■Right alignment	123,000
3.	Quantity	Quantity of the corresponding media	■Positive integer ■Right alignment	2
4.	Amount	Total money of the corresponding media	■Comma for thousands separator ■Positive integer ■Right alignment	246,000

5.	Subtotal Before VAT	Total price of products in the cart before VAT	■Comma for thousands separator ■Positive integer ■Right alignment	2,106,000
6.	Subtotal	Total price of products in the cart with VAT		2,316,600
7.	Shipping fees			30,000
8.	Total	Sum of subtotal and shipping fees		2,346,600
9.	Currency			VND
10.	Name	The receiver name		Do Minh Hieu
11.	Phone number	The receiver's phone number	+84.....	+84987654321
12.	Province	The province address		Hanoi
13.	Address	The detail of receiver address		12, 34 Alley of Tran Thai Tong street, Cau Giay district

9. Post preconditions

- The AIMS software successfully sends the payment request to VNPay's payment gateway.
- VNPay's payment gateway processes the payment request and provides a response indicating the success or failure of the transaction.
- The customer receives a payment confirmation from VNPay and the AIMS software.