

# IT4490 – Software Design and Construction

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## USE-CASE “PAY ORDER”

### 1. Use case code

UC002

### 2. Brief description

This use case describes the interaction between the AIMS software with the customer and VNPay when the customer desires to pay order.

### 3. Actors

- 3.1. The AIMS software with the customer: Send information, calculate total amount
- 3.2. VNPay: Proceed payment

### 4. Preconditions

- Order information and delivery information is valid

### 5. Basic Flow of Event

Step 1: AIMS software displays the invoice (Table 7)

Step 2: Customer asks to pay the invoice

Step 3: Customer enter payment information (Table 6)

Step 4: AIMS software redirects to VNPay

Step 5: VNPay notifies the payment result

Step 6: VNPay sends payment result to AIMS software

### 6. Alternative flows

Table 5: Alternative flow of events for UC "Pay Order"

No	Location	Condition	Action	Resume location
1	Step 6	If the customer cancels the payment transaction	The AIMS software notifies that customer just cancels the payment transaction	Step 1

2	Step 4	If VNPay connection has an error	The AIMS software saves the invoice for the later transaction	Use case ends
3	Step 2	If customer refuses to pay the invoice	The AIMS software notifies that payment is unsuccessful	Use case ends

## 7. Input data

Table 6: Input data of payment method

No	Data fields	Description	Mandatory	Valid condition	Example
1	Payment method	Choose from a list	Yes	- VNPay	VNPay
2					
3					

## 8. Output data

Table 7: Output data of invoice information

No	Data fields	Description	Display format	Example
1	Title	Title of a media product		DVD Phim Vượt ngục
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		2,316,000
7	Shipping fees			30,000
8	Total	Sum of subtotal and shipping fees		2,346,000
9	Currency			VND

## 9. Post-conditions

- AIMS software receives notification of payment result from VNPay and AIMS software updates order status of customer