USECASE SPECIFICATIONS FOR AIMS SYSTEM

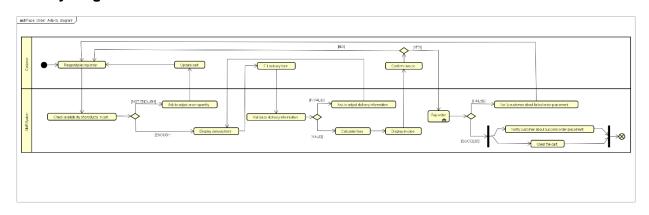
I. <u>USECASE "PLACE ORDER"</u>

1. Descriptions and flows

Usecase		E ORDER			PLACE ORDER				
Usecase code	UC-25								
Actors	Custo								
Brief description	After h	naving selecte	delivery details		art, customer requested ment must be done				
Preconditions		cart of user h omer is viewi	as had some it ng the cart	ems					
	Step	Actor		Ad	tion				
	1	Customer	Customer cho	oses to plac	e an order				
	2	System	AIMS checks and availability of products in the cart						
	3	System	AIMS checks and availability of products in the cart AIMS shows the form to fill delivery information and delivery instruction						
	4	Customer	instruction an	d submit	ry information and	l delivery			
Main flow of	5	System	AIMS validates the customer's input						
event	6	System	AIMS calcula						
	7	System	AIMS displays the invoice with details and total amount of money to pay						
	8	Customer	Customer confirms the invoice						
	9	System	AIMS saves the invoice						
	10	System	AIMS calls "PAY ORDER" usecase						
	11	System	AIMS notifies placement an		out order success cart				
	No.	At step	Conditions	Actor	Action	Cont. at step			
				Customer	Customer cancels order				
Alternative flow of event	1	1-10		System	AIMS saves current state of the cart and clears all delivery and transaction information				
				Customer	Customer cancels order				
	2	After 10		System	AIMS asks for cancel order confirmation				
				Customer	Customer confirms cancellation				

				System	AIMS calls "REFUND" usecase	
			There is a product of which	System	AIMS asks the customer to update the cart	
	3	2	quantity is less than the ordered quantity	Customer	Customer updates the cart	2
	4	5	Customer chooses to place rush order in previous step	System	AIMS calls "PLACE RUSH ORDER" usecase	6
	5	5	Customer lefts blank mandatory fields	System	AIMS asks customer to fill in the mandatory fields	3
	6	5	Phone number is invalid	System	AIMS asks customer to enter a valid phone number	3
	7	8	Customer declines invoice	System		1
	8	11	Payment failed	System	AIMS notifies about failure & keeps the cart's current state	1
Postconditions	- The	order has a s	tate (success/f	ailed)		

Activity diagram



2. Input data

Input data for ordering quantity

No.	Data field	Description	Mandatory	Valid conditions	Example
1	Quantity	Positive integer	Yes	Less than currently available number of selected product	6

Input data for delivery information

No.	Data field	Description	Mandatory	Valid conditions	Example
1	Receiver name		Yes		Nguyen Thi Thu Trang
2	Phone number		Yes	All numbersAt least 10 digits	0123456789
3	Province	Select from list	Yes		Hanoi
4	District	Select from list	Yes		Dong Da
5	Ward	Select from list	Yes		Trung Phung
6	Address		Yes		123 X Street
7	Shipping notes/instruction		No		Turn left on the last crossroad. Please ship in work time

3. Output data Output data for displaying cart

No.	Data field	Description	Format	Example
1	Title	Title of media product	String	Gone with the wind
2	Quantity	Order quantity of corresponding media product		5
3	Price	Price of corresponding media product		120 000
4	Amount	Total money for corresponding media product	- Space separating thousands - Positive integer	600 000
5	Subtotal before VAT	Total price of products in the cart without VAT	- Fositive integer	600 000
6	Subtotal	Total price of products in the cart with VAT		606 000
7	Currency	Type of currency used for payment		VND

Output data for displaying invoice

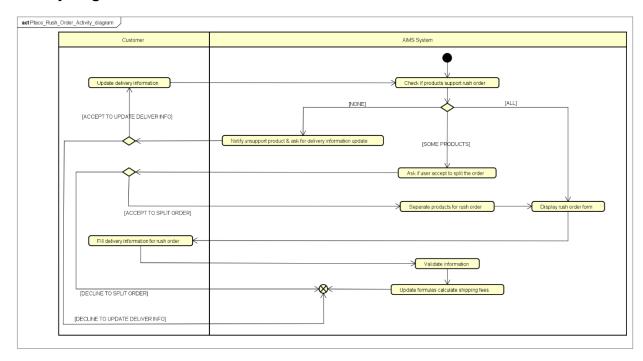
No.	Data field	Description	Format	Example
1	Title	Title of media product	String	Gone with the wind
2	Quantity	Order quantity of corresponding media product		5
3	Price	Price of corresponding media product		120 000
4	Amount	Total money for corresponding media product	- Space separating thousands	600 000
5	Subtotal before VAT	Total price of products in the cart without VAT	- Positive integer	600 000
6	Subtotal	Total price of products in the cart with VAT		606 000
7	Shipping fees			30 000
8	Total	Sum of subtotal and shipping fees		636 000
9	Currency	Type of currency used for payment		VND
10	Receiver	Name of receiver	String	Nguyen Thi Thu Trang
11	Address	Full address of receiver	- String - Combination order from user input: <address>, <ward> Ward, <district> District, province</district></ward></address>	123 X Street, Trung Phung Ward, Dong Da District, Hanoi
12	Shipping instruction		String	Turn left on the last crossroad. Please ship in work time

II. <u>USECASE "PLACE RUSH ORDER"</u>

1. Descriptions and flows

Usecase	PLAC	PLACE RUSH ORDER						
Usecase code	UC-25	UC-251						
Actors	Custo	Customer						
Brief		The customer chooses to place rush order when entering delivery						
description		information						
Preconditions	Custo	<u>mer chosen t</u>	o place rush or	der in deli				
	Step	Actor			Action			
	1	System			s support rush order			
Main flow of	2	System	t	AIMS displays rush order form				
event	3	Customer		Customer updates rush order information				
	4	System	AIMS validate			_		
	5	System	AIMS update	s formula f	or calculate shipping			
	No.	At step	Conditions	Actor	Action	Cont. at step		
	1	1, 4	Shipping address does not support rush order	System	AIMS notifies user and ask for update delivery information			
	2	1	All products do not support rush order	System	AIMS notifies user about unsupported rush order			
Alternative flow of event	3	2	Some products do not support rush order	System	AIMS notifies about unsupported rush order products and asks if customer wants to update delivery information			
	3a		Customer declines to updates delivery information	System	AIMS goes back to Step 4 of "PLACE ORDER" usecase			
	3b		Customer accepts updating delivery information	System	AIMS separates the products for rush order and normal order	4		
	4	Any time	Cancel rush order	System	AIMS calls "PLACE ORDER" usecase			
Postconditions	None							

Activity diagram



2. Input data

Input data for rush delivery information

No.	Data field	Description	Mandatory	Valid conditions	Example
1	Receiver name		Yes		Nguyen Thi Thu Trang
2	Phone number		Yes	- All numbers - At least 10 digits	0123456789
3	District	Select from list	Yes	_	Dong Da
4	Ward	Select from list	Yes		Trung Phung
5	Address		Yes		123 X Street
6	Shipping notes/instruction		No		Turn left on the last crossroad. Please ship in work time

3. Output data

None

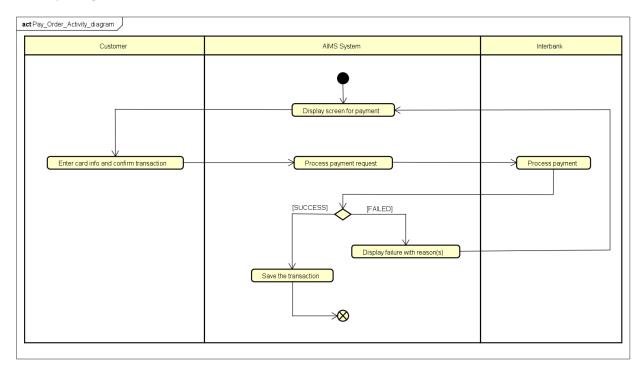
III. <u>USECASE "PAY ORDER"</u>

1. Descriptions and flows

Usecase	PAY	PAY ORDER						
Usecase code	UC-26	60						
Actors	1. Cus 2. Inte	stomer rbank						
Brief	The cu	ustomer ent	ers transaction	information	n. AIMS collects thes	е		
description					erforming payment.			
Preconditions	Custo	mer has cor	firmed the inve					
	Step	Actor			Action			
	1	System	AIMS display	s form for e	ntering transaction in	nformation		
	2	Custome r	Customers fil	ls in transac	ction information			
	3	System	AIMS validates information					
Main flow of	4	System	AIMS send re transaction	equest to int	erbank for performin	g		
event	5	Interbank	Interbank che	cks for tran	saction validity			
event	6	Interbank	Interbank per	forms transa	action			
	7	Interbank	Interbank not	ifies AIMS a	about transaction suc	cess		
	8	System		AIMS records payment details and set the order to pending state				
	9	System	AIMS display payment details to customer					
	10	System	AIMS sends and email of invoice transaction information to customer					
	No.	At step	Conditions	Actor	Action	Cont. at step		
	1	1 3	Customer enters invalid credit card number	System	AIMS asks the customer to input the credit card number again	1		
Alternative flow of event	2	E	Customer's account does not	Interbank	Interbank sends AIMS notifications about transaction failure			
	2	5	have enough amount for transaction	System	AIMS goes back to alternative flow 8 of "PLACE ORDER" usecase			
	3	5	Transaction failed due to errors of interbank	Interbank	Interbank sends AIMS notifications about transaction failure			

			System	AIMS goes back to alternative flow 8 of "PLACE ORDER" usecase	
Postconditions	None				

Activity diagram



2. Input data Input data for transaction information

No.	Data field	Description	Mandatory	Valid conditions	Example
1	Card holder name		Yes		NGUYEN THI THU TRANG
2	Card number		Yes	- 16 digits - Match interbank	6234 5678 9012 3456
3	Secure digits	On the back of the credit card	Yes	- 3 digits	505
4	Interbank	Select from list	Yes		Vietcombank

3. Output data Output specs for transaction record

No.	Data field	Description	Format	Example
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1	Cardholder name	Name of the cardholder	String, all caps	NGUYEN THI THU TRANG
2	Transaction ID	ID of the transaction	- 24 characters, separated by dash every tuple of 4 - The 3 rd and 5 th tuples are all digits, the remaining tuples are all letters - String, all caps	QKSV-KJAR- 1324-SAFB- 3218-DSFB
3	Date issued	The date when the transaction is performed	DD Mon, YYYY	23 Apr, 2021
4	Payment method	Method for paying for the order	Type of credit card (identified by the first digit of card number), Name of interbank	Visa, Vietcombank
5	Total	Amount to be paid	Space separating thousandsPositive integer	636 000

IV. <u>USECASE "REFUND ORDER"</u>

1. Descriptions and flows

Usecase	REFUND ORDER				
Usecase code	UC-270				
Actors	Interbank				
Brief	The customer decides to cancel the order. AIMS requests the bank to				
description	return payment for customer and remove the order from pending state				
Preconditions	Customer has confirmed the invoice and perform transaction successfully				
	Step	Actor	Action		
	1	System	AIMS sends notifications to interbank about refund		
Main flow of	2	Interbank	Interbank validates refund requests		
event	3	Interbank	Interbank returns money to customer and notify AIMS		
CVCIII	4	System	AIMS changes the state of order to "Discarded by customer"		
	5	System	AIMS notifies customer about refund successfully		
Alternative flow of event	None				
Postconditions	None				

2. Input data

None

3. Output data

None