

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Information and Communications Technology

Software Requirement Specification

Version 1.1

AIMS

Hanoi, <month, year>

<All notations inside the angle bracket are not part of this document, for its purpose is for extra instruction. When using this document, please erase all these notations and/or replace them with corresponding content as instructed. >

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Table of contents

Table of contents	1
1 Introduction	2
1.1 Objective.....	2
1.2 Scope	2
1.3 Glossary	2
1.4 References	2
2 Overall requirements	3
2.1 Actors.....	3
2.2 General use case diagram	3
2.3 Lower-level use case diagrams.....	4
2.4 Business processes.....	5
3 Detail requirements	7
3.1 Specification of Use case UC005 - “PlaceOrder”	7
3.2 Specification of Use case UC006 - "Pay Order"	
4 Supplementary specification	
4.1 Functionality	
4.2 Usability.....	
4.3 Reliability	
4.4 Performance.....	
4.5 Maintainability.....	
4.6 Design Constraints.....	

1 Introduction

1.1 Objective

This document presents the detailed description for User management subsystem, user group and their usable function at run time. This document also describes the objectives and features of the system, interfaces and constraints of the system in response to external action.

This document is for stakeholders and related software developers.

1.2 Scope

<Describe the problem statement here>

1.3 Glossary

<Listing and explaining the terms appearing in the software's profession and this documents. Any assumption of the reader's prior knowledge or experience on the subject is ill advised>

1.4 References

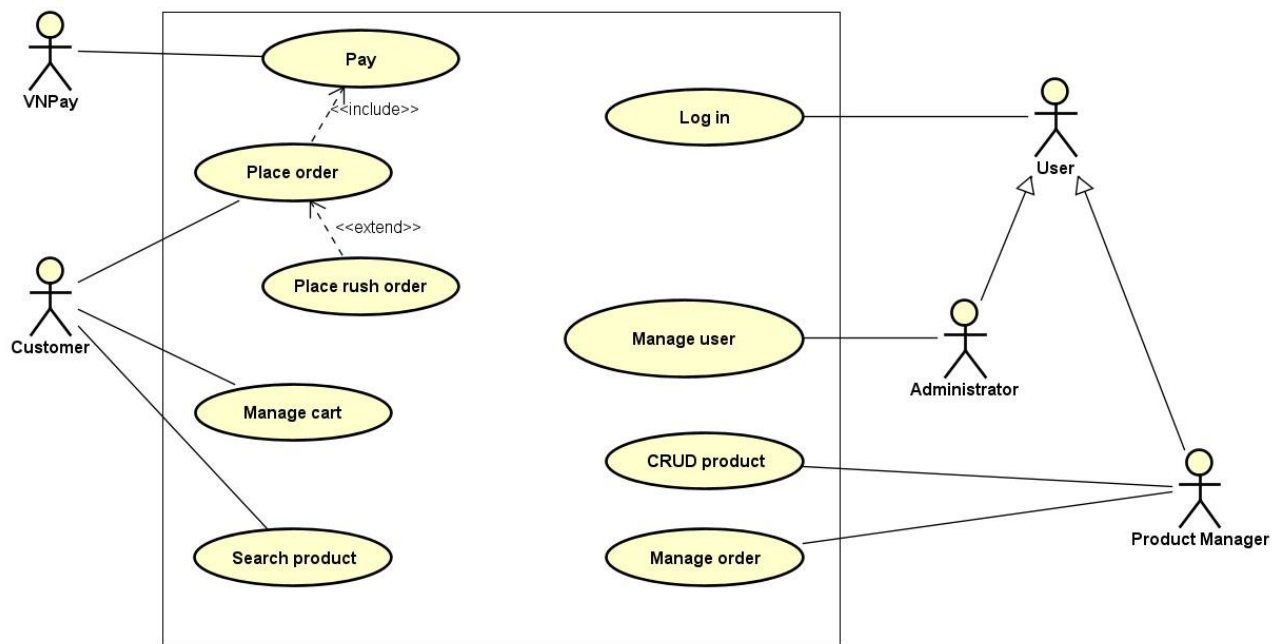
<Listing the referenced material used in this documents, including the one related to the project>

2 Overall requirements

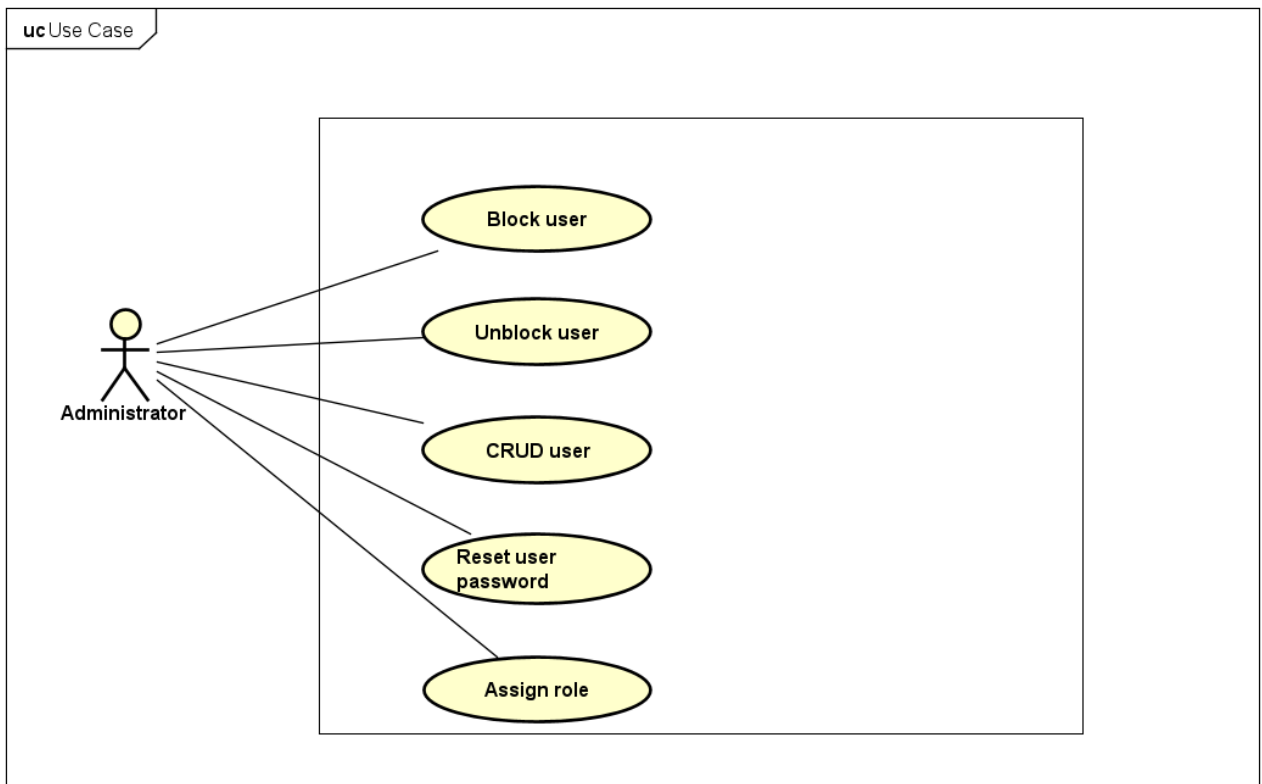
2.1 Actors

- Customer: the main actor of the system, can manage cart, place an order
- Administrator: administrates the aims shop, can view, add, update, delete products, accept or deny orders

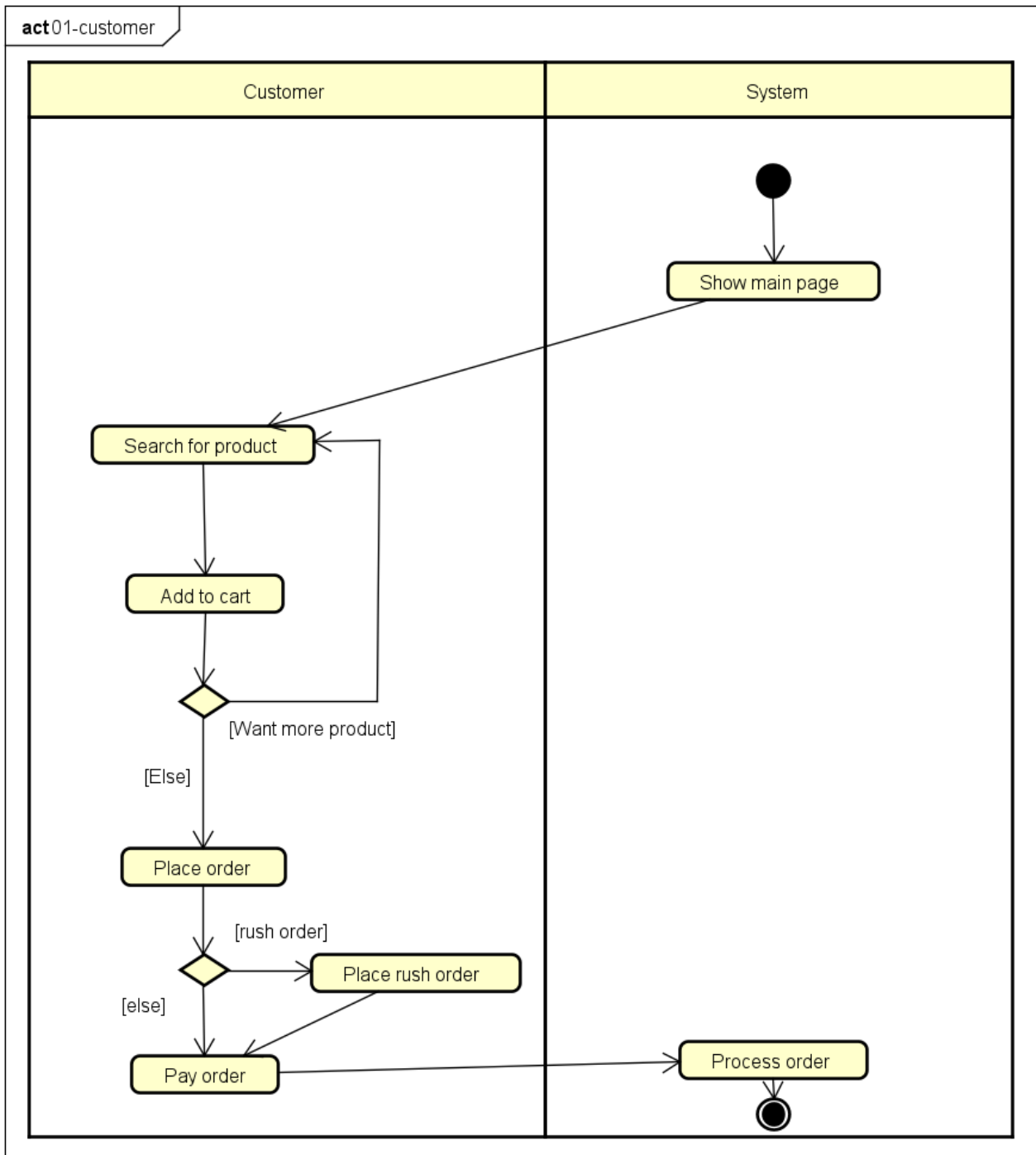
2.2 General use case diagram



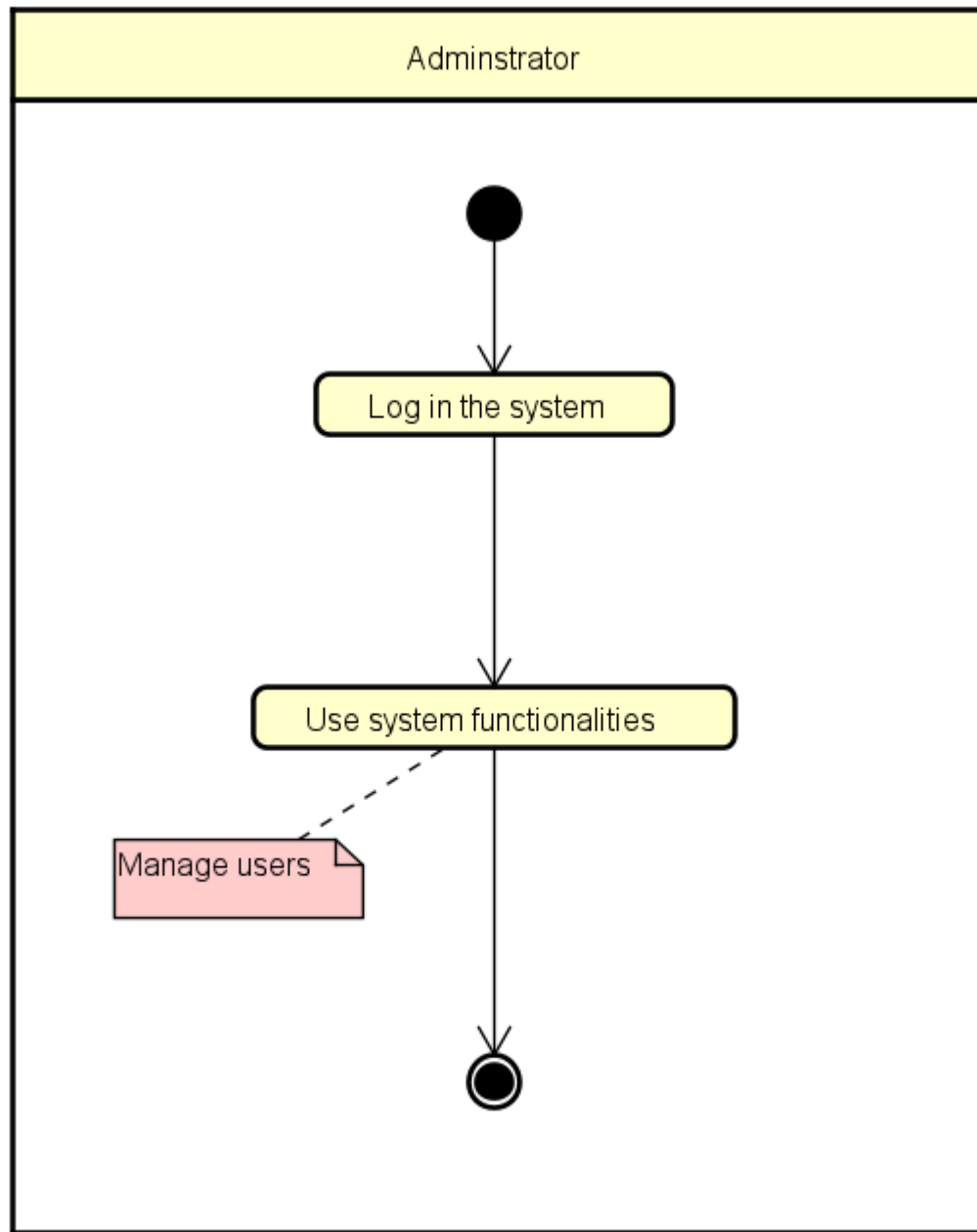
2.3 Lower-level use case diagrams

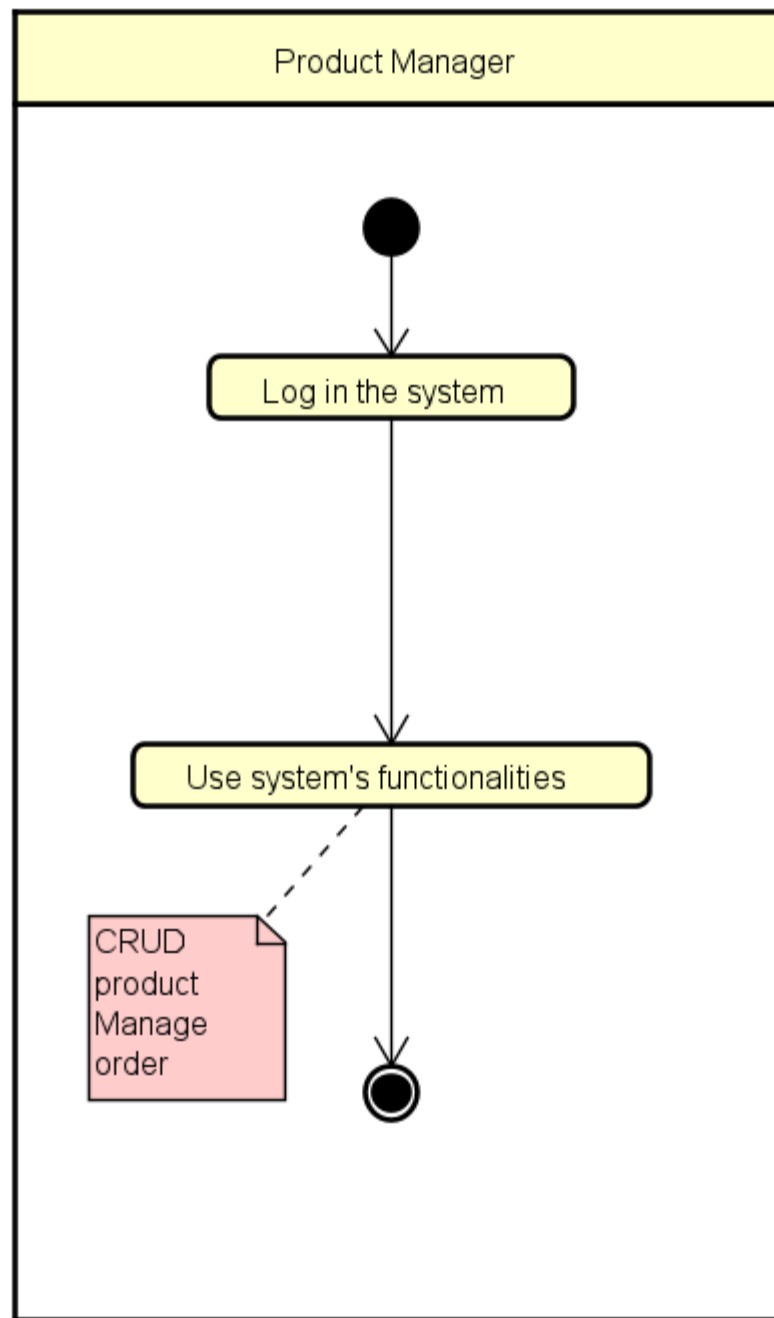


2.4 Business processes



act02-administrator





3 Detail requirements

3.1 Specification of Use case UC05 - “place order”

1. Use case code

UC05

2. Brief Description

This use case describes the interaction between the Customer and the AIMS system, when the customer chose to place an order

3. Actors

Customer

4. Preconditions

5. Basic Flow of Events

1. The customer requests to place order
2. The system checks for product availabilities
3. The system displays the form of delivery information
4. The customer enters and submits delivery information
5. The system calculates shipping fees
6. The system displays the invoice
7. The customer confirms place order
8. The system calls UC “Pay Order”
9. The system creates a new order
10. The system makes the cart empty
11. The system sends email about the order notification and information
12. The system displays the successful order notification and the order information

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1.	At Step 3	If the products are not available	<ul style="list-style-type: none">▪ The system notifies the products in the cart are not available and come back to the use case “View Cart”	Use case ends

2.	At Step 5	If the delivery info is invalid	<ul style="list-style-type: none"> The system notifies that the delivery info is invalid (blank or wrong format) 	Step 3
3.	At Step 5	If user chooses to place a rush order	<ul style="list-style-type: none"> The system inserts use case "Place Rush Order" 	Step 5
4.	At Step 9	If order payment is not successful	<ul style="list-style-type: none"> Notifies that payment is not successful 	Step 8

7. Input data

Table A-Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Receiver name		Yes		Tran Duc Dat
2.	Phone number		Yes	10 digits	0889389266
3.	Province	Choose from a list	Yes		Ha Noi
4.	Address		Yes		39 Hai Ba Trung, Ha Noi
5.	Shipping instructions		No		Be careful, fragile products

8. Output data

Table B-Output data of displaying invoice

No	Data fields	Description	Display format	Example
1.	Title	Title of media product		DVD Marvel
2.	Price	Price of the corresponding media product	<ul style="list-style-type: none"> With currency Comma separated for 3 digits 	123,000 vnd
3.	Quantity	Quantity of the	<ul style="list-style-type: none"> Positive integer 	10

		corresponding media		
4.	Amount	Total money of corresponding media	<ul style="list-style-type: none"> - With currency - Comma seperated for each 3 digits 	1,230,000 vnd
5.	Subtotal Before VAT	Total price of products in the cart before VAT	<ul style="list-style-type: none"> - With currency - Comma seperated for each 3 digits 	2,000,000 vnd
6.	Shipping fees			
7.	Total	Sum of subtotal and shipping fees		
8.	Currency			vnd
9.	Name			
10.	Phone number			
11.	Address			
12.	Shipping instructions			

9. Postconditions

3.2 Specification of Use case UC06-“Pay Order”

1. Use case code

UC06

2. Brief Description

This usecase describes the interaction between the customer, the system, and the Interbank actor, in the process of making a payment

3. Actors

Customer

Interbank

4. Preconditions

5. Basic Flow of Events

1. Customer enters credit card info and confirm to pay order
2. The system calls Interbank to process payment transaction
3. The interbank creates a Paymen transaction
4. The system saves the payment transaction
5. The system check the payment transaction
6. The system displays successful payment and display payment info

6. Alternative Flows

No	Location	Condition	Action	Resume location
5.	At Step 5	If the credit is invalid	▪ The system notifies the error Invalid credit card	Use case end
6.	At Step 5	If the credit card info is wrong	▪ The system notifies the wrong Credit card info is wrong	Use case end
7.	At Step 5	If the credit card does not have enough balance	▪ The system notifies	Use case end

7. Input Data

No	Data fields	Description	Mandatory	Valid condition	Example
1	Card holder name		Yes	Maximum of 50 characters	NGUYEN VAN A
2	Card number		Yes	16 digits	1234 5678 9101 1123
3	Expiration date		Yes	Consists of month and last 2 digits of year	01/23
4	Security code		Yes	3 digits	456

8. Output Data

No	Data fields	Description	Display format	Example
1	Transaction ID			
2	Card holder name			
3	Amount			
4	Transaction content			
5	Transaction date		Dd/mm/yyyy	05/9/2023

9. Postconditions

3.3 Specification of Use case UC07-“Place Rush Order”

1. Use case code

UC06

2. Brief Description

This usecase describes the interaction between the customer when the customer wants to place a rush order

3. Actors

Customer

4. Preconditions

5. Basic Flow of Events

1. The customer chooses to place a rush order
2. The system checks for rush order support
3. The system checks for rush order address
- 3a. The system updates the place order screen
- 3b. The customer resubmit the delivery info

6. Alternative Flows

No	Location	Condition	Action	Resume location
8.	At Step 2	If there's no item for rush order	▪ The system notifies the customer	Use case end
9.	At Step 3	If the rush order address is not supported	▪ The system notifies the customer	Step 3a

7. Input Data

Input for delivery info of the customer

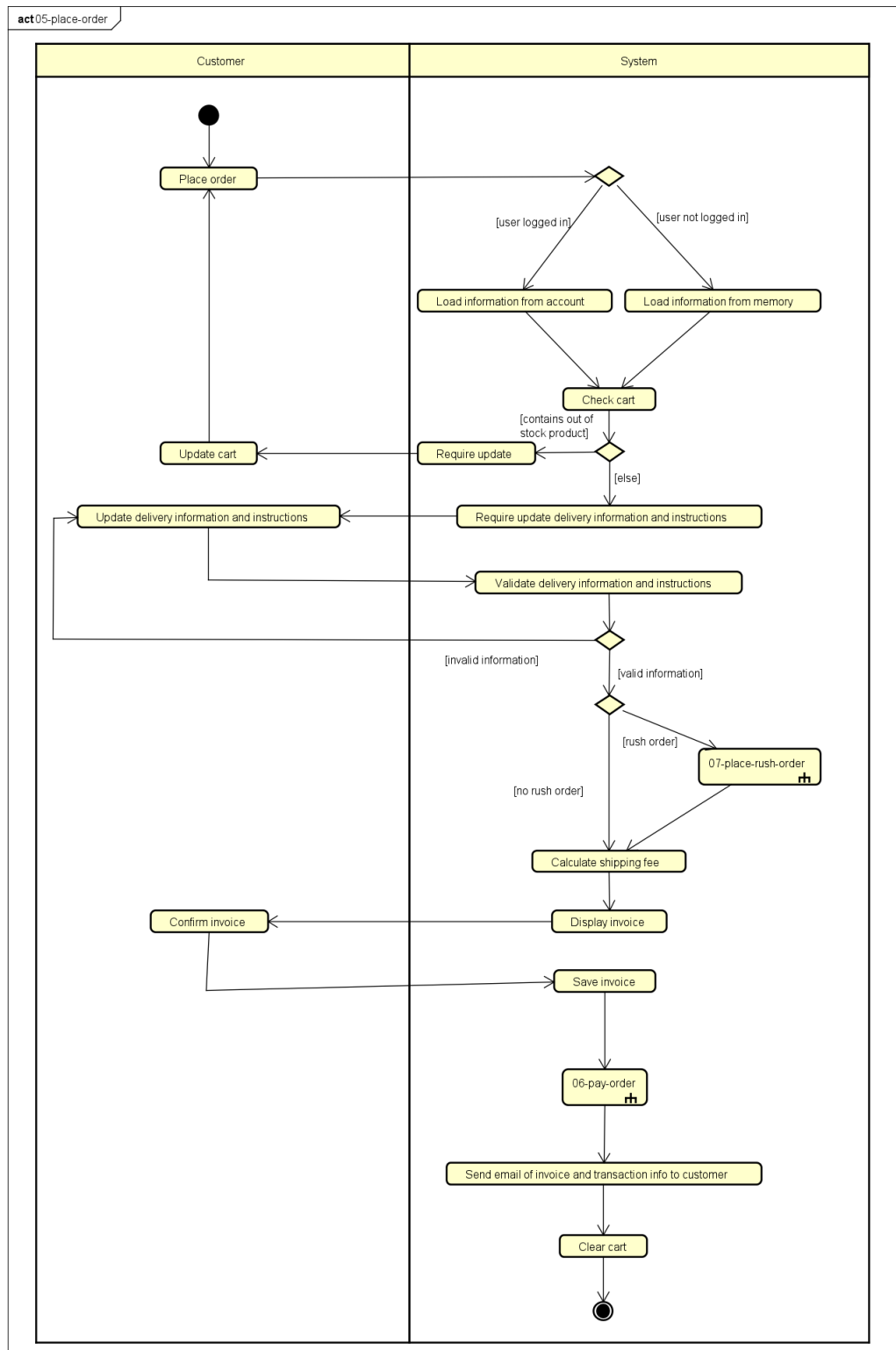
No	Data fields	Description	Mandatory	Valid condition	Example
1	City	Choose from a predefined list	Yes		Ha Noi
2	Street	Choose from a predefined list	Yes		Hoan Kiem
3	Address		Yes		69B 22C Complex

8. Output Data

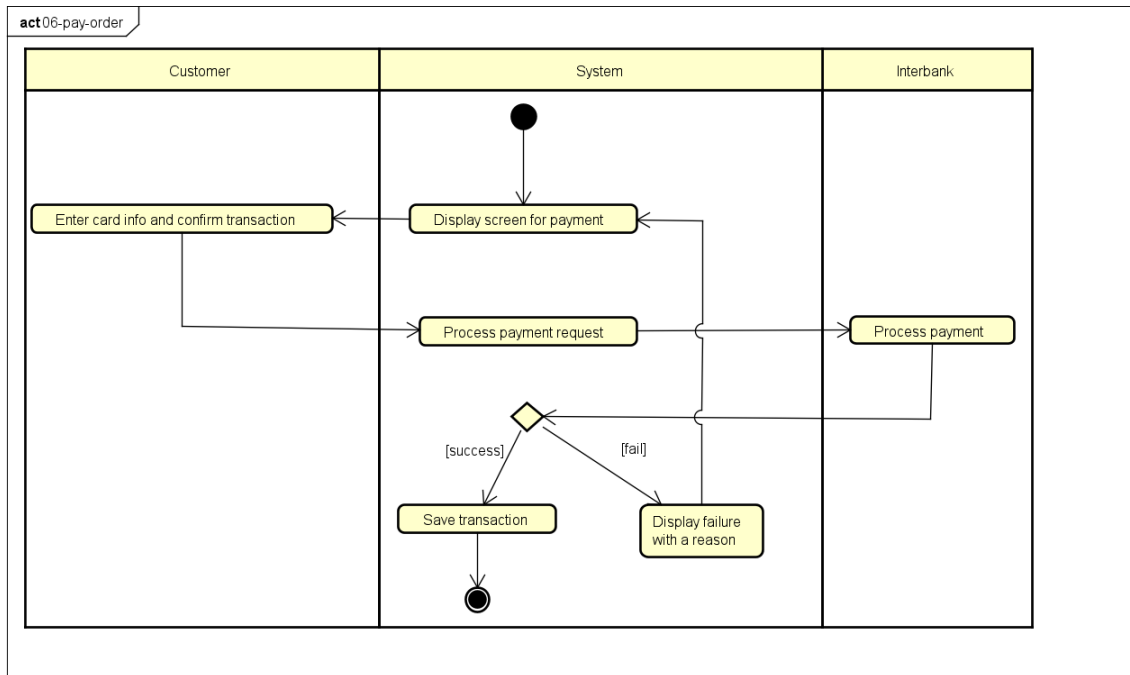
9. Post conditions

4. Activities Diagram

4.1 Use Case Place Order



4.2 Use Case Pay Order



4.3 Use Case Place Rush Order

