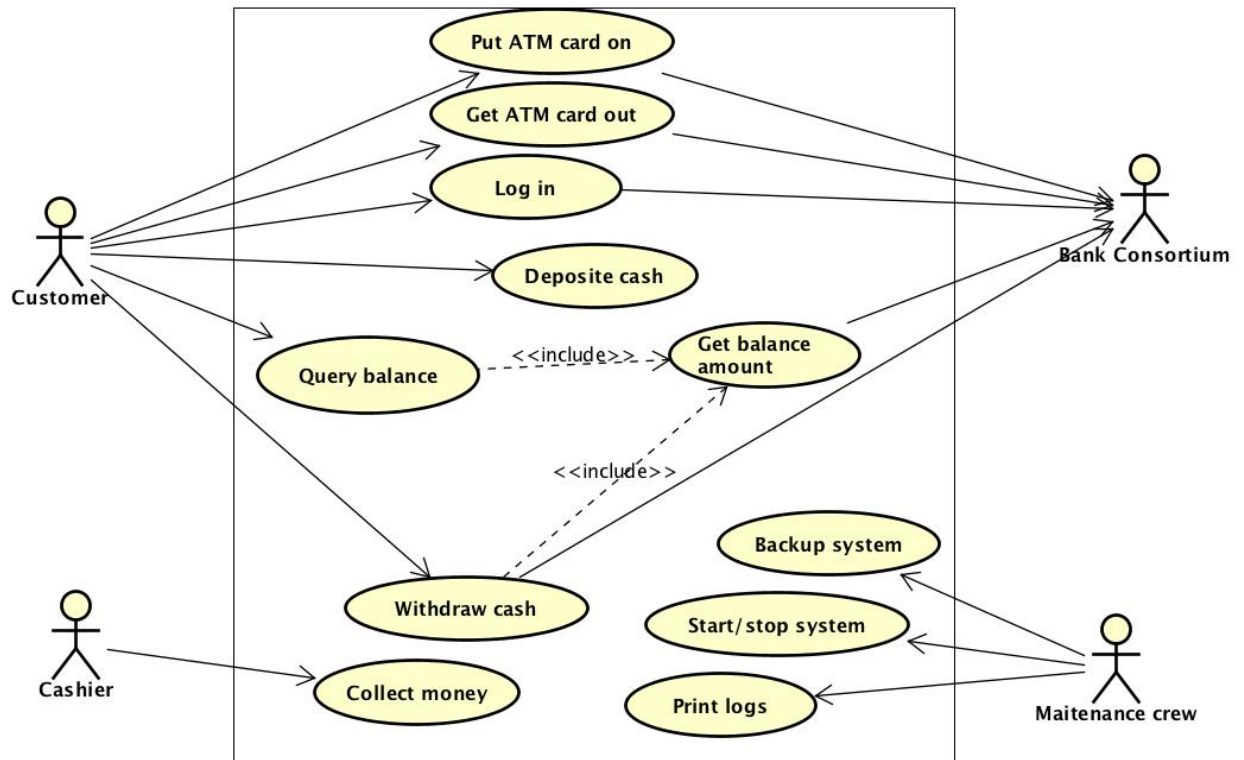# ATM system

1 Use case diagram

2 Supplementary specification

2.1 Functionality

The transaction amount should be in increments of VNĐ 10.000. The number of withdrawals per day is cannot exceed 4 times. The system will only accept ATM cards from participating banks.

2.2 Performance / Efficiency

All 30 bank ATMs may be used simultaneously. The system should respond to requests in less than five seconds.

2.3 Reliability

The system should be available for communication 97% of the time on a 24/7/365 basis.

2.4 Usability

Screen should be easy to read and touch pads easy to use.

3 Use case specification

3.1 UC "Withdraw cash"

UC Code	UC001		Use case name	Withdraw cash
Actor	Customer, Bank Consortium			
Precondition	Valid PAN and Successful Login			

Main flow of event (success)	**#**	**Doer**	**Action**	
	1.	Customer	chooses withdraw cash	
	2.	System	checks the status of the withdrawal chute	
	3.	System	displays withdrawal screen	
	4.	Customer	enters and submits the withdrawal amount	
	5.	System	checks if the withdrawal amount is in increments of VNĐ 10.000	
	6.	System	checks if the number of withdrawals per day <= 4 times	
	7.	System	checks if the system has enough money to dispense	
	8.	System	checks if the customer balance is sufficient	
	9.	System	write the withdrawal amount and increase the count of withdrawals per day to unposted local file	
	10.	System	ejects ATM card	
	11.	System	dispense money	
	12.	System	send the withdrawal amount and the count of withdrawals per day to bank consortium	

Alternative flow of event	**#**	**Doer**	**Action**	
	3a.	System	notifies "Temporarily unable to process withdrawals" if the withdrawal chute is jammed	
	6a.	System	notifies "The amount should be in increments of VND 10.000" if the amount is not in increments of VND 10.000	
	7a.	System	notifies "The number of withdrawals per day exceeds 4 times" if the number of withdrawals perday > 4 times	
	8a.	System	notifies "Machine cannot dispense that amount" if it doesnot have enough money	
	9a.	System	notifies error: "Insufficient Funds" if the balance is not sufficient	

| **Post condition** | None | | | |

3.2 UC "Deposit cash"

UC Code	UC002	Use case name	Deposit cash
Actor	Customer		
Precondition	Valid PAN and Successful Login		

Main flow of event (success)	#	Doer	Action
	1.	Customer	chooses deposit cash
	2.	System	checks if the status of the deposit envelope slot is good
	3.	System	displays deposit screen
	4.	Customer	enters and submits the deposit amount
	5.	System	checks if the deposit amount is in increments of VNĐ 10.000
	6.	Customer	put envelope into deposit slot
	7.	System	checks if the deposit amount matches to the deposit envelope
	8.	System	writes the deposit amount and increase the count of deposit per day to unposted local file
	9.	System	displays successfully deposit

Alternative flow of event	#	Doer	Action
	3a.	System	notifies "Temporarily unable to process deposit" if there is any problem with deposit envelope slot
	6a.	System	notifies "The amount should be in increments of VND 10.000" if the amount is not in increments of VND 10.000
	8a.	System	notifies "The deposit amount doesnot match to the deposit envelope" if it doesnot match

| **Post condition** | None | | |