23mx21 – Software Engineering USE CASE STORY – Customer Authentication – ATM

1. Name of the Use case	Customer Authentication – ATM
2. Actors	Customer, Bank, DB Admin, Bank Admin
3. Description	This use case describes how to authenticate
	the Customer.
4. Preconditions	1. Customer must have a valid Debit/Credit
	Card
	2. Active network connection from ATM to
	Bank System.
5. Triggers	When a customer needs to do any
	transaction in ATM
6. Flow of Events	1. Insert ATM Card
	The Customer's ATM Card is validated –
6.1 Basic flow of events	using his/her credentials available in the
	bank server.
	2. Enter PIN
	The ATM displays to enter the PIN. The
	customer enters the PIN. System validates
	the entered PIN using his/her details
	available in the bank server.
	3. Display Menu
	The ATM displays the menu and allows the
	customer to proceed with a transaction.
6.2 Alternate flow of	1. Invalid ATM Card
events	If the inserted card is not an ATM Card/
	expired ATM card. System will display a

message to insert the correct ATM Card and return the wrong card.

2. Wrongly Inserted Card

Customer inserted the ATM card in the machine wrongly. System will display a message to insert the same correctly.

3. Inserted Card found in the list of stolen cards.

If the inserted card is found in the list of stolen cards maintained by the Bank.

Then, your card will be confiscated by the ATM. A message will be displayed to the customer to meet the concerned Bank Manager.

4. Wrongly entered PIN

Customer entered a wrong PIN, the machine will display a message as wrong PIN – enter the correct PIN. Customer has to enter the PIN again.

5. Consecutive 3 wrong PINs

If a customer entered the PIN wrongly 3 consecutive times, your card will be confiscated by the ATM Machine / your account will be blocked. A message will be displayed to the customer with a request to meet the concerned Bank Manager.

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7. Success Criteria	The use case concludes when the ATM
	displays the menu to the customer for a
	transaction.
8. Post Conditions	1. Menu Displayed
	If everything is fine, menu will be
	displayed to the customer
	2. Returned the wrong card
	If the inserted card is not a valid card or
	if the card is inserted wrongly.
	3. Card confiscated /Account
	Blocked
	If the customer entered 3 consecutive
	wrong PINs or if the inserted Card is
	found in the stolen list.
9. Use Case Extensions	Withdrawal
	Deposit
	Reports generation etc.