USE CASE: provide ATM user with money.

Scope: ATM software application.

Level: user goal.

Primary actor: bank customer.

Stakeholders and interests:

- 1. Bank customer
 - a. Access to all funds in both their savings and checking.
 - b. Deposit checks.
 - c. Check balance.
 - d. Receive a receipt.
- 2. ATM
 - a. Provide funds available to customers.
 - b. Automatically update fund changes immediately.
 - c. Protect the bank and the customer from false cards or PINs.
- 3. Bank home office computer
 - a. Provide accurate account funds information.
 - b. Update immediately when a transaction occurs system wide.
- 4. Fraud department
 - a. If sent card information they will verify if the card is stolen.

Preconditions:

- 1. A valid card is entered.
- 2. A valid PIN is entered that matches with the card.

Post conditions:

- 1. Customer is happy with the transaction.
- 2. The transaction is disseminated to all bank systems.
- 3. A photo of the customer is taken.
- 4. Receipt is generated.
- 5. Card is provided back to the customer.

Main success scenario:

- The ATM displays a message on a screen identifying itself to customer.
- 2. The customer inserts his card.
- 3. The ATM verifying the legitimacy of the card.
- 4. The bank computer verifying the legitimacy of the card.
- 5. The ATM takes a photo of the customer.
- 6. The ATM requests that the customer enter the PIN.
- 7. The ATM verifies the legitimacy of the PIN.
- The ATM asks the customer whether he want to remove funds or make a deposit.
- 9. If the customer requests to remove funds, the ATM asks if funds should be removed from checking or savings.
- 10. Customer decides which account to remove funds from.
- 11. The ATM asks the customer how much money to remove from the checking account.
- 12. The customer enters the amount to remove.
- 13. The ATM asks the bank computer to verify if funds are available.
- 14. The bank computer locks down the account from other transactions.
- 15.The ATM informs the customer that the transaction is being processed.
- 16. The ATM provides the specified funds to the customer.
- 17. The ATM asks the customer if he would like another transaction.
- 18. The ATM repeats steps 8 to 16 until the customer is finished.
- 19. The bank computer is informed of the transaction.
- 20.The customer receives the receipt.
- 21. The customer receives his card.

Nouns:

- 1. Customer.
- 2. ATM.
- 3. Transaction.
- 4. Bank computer.
- 5. Card.

- 6. Account.
- 7. Bank network.

Extensions:

- *1. At any time if the ATM runs out of funds
 - a. Display a closed message.
 - b. Shutdown the machine.
 - c. Send a message that a technician needs to fill the ATM with funds.
- *2. At any time if the ATM runs out of paper
 - a. Display a closed message.
 - b. Shutdown the machine.
 - c. Send a message that a technician needs to fill the ATM with paper.
- 3a. The card is from another bank
 - 1. Connect to the other bank to verify funds.
 - a. The other bank isn't reachable
 - 1. Inform the customer that a transaction can't be made.
 - 2. Provide the customer with his card.
 - 3. End transaction.
 - 4. Provide the customer with a receipt.
 - b. The other bank is reachable
 - 1. If the customer must pay a fee inform him of that.
 - a. Receive verification that the customer understands any fees.
 - 1. Add the fee as a part of the transaction if the customer allows.
 - 2. If the customer declines record that and provide the customer with his card and receipt.

Special requirements:

1. The text must be readable by the color blind people.

2. The text must be readable by people who speaks other languages.

Data variation list:

1. All data uses 256 AES encryption.

Frequency occurrence:

. Cold be constantly.

Miscellaneous:

- 1. Is there anything we can do to improve user experience for the blind.
- 2. Can polarized screens help improve security?