# <u>Automatic Teller Machine Simulator -</u> <u>Alistair Cockburn Format - Common Fully</u> <u>Dressed Usage case</u>

Use Case: Provide Customer with cash from savings/checking accounts

**Scope:** ATM software

Level: User Goal

Primary Actor: Bank Customer

### Stake holders:

- 1. Bank Customer
  - a. Inserts valid ATM Card
  - b. Provides valid PIN
  - c. Select a bank account with funds
  - d. Select amount less than total amount in bank account
  - e. collects cash

# 2. ATM

- a. Validates ATM card
- b. validates PIN
- c. Connects to the Bank server
- 3. Bank Server
  - a. validate account selected
  - b. validate amount entered

#### Preconditions:

- Machine is ready to receive card (Machine is powered, Machine has network connection to bank server and card reader flashes green)
- Valid card
- valid PIN

#### Post Conditions:

- Customer account is updated with changes
- Disburse requested cash amount to Customer in a secured manner
- Print receipt reflecting amount cashed out by customer
- Customer is happy, bank is happy

## Main Success Scenario:

- 01. Customer inserts an ATM card into the card reader of ATM
- 02. Card is validated by the system
- 03. PIN is requested from Customer
- 04. Customer provides PIN
- 05. PIN is validated by the system
- 06. Customer is asked to select a bank account
- 07. Customer selects a bank account
- 08. Customer is prompted for the amount to withdraw from the selected bank account
- 09. Customer enters amount to withdraw either in \$10 or \$20
- 10. Amount is validated by the Bank
- 11. System begins a transaction
- 12. Amount is disbursed
- 13. Customer is prompted if he wants another transaction
- 13a. Customer says yes, and is taken back to -Customer is prompted for the amount to withdraw
- 13b.Customer says no, card is ejected
- 14. Receipt is printed and emitted
- 15. Machine is ready to receive another customer

#### Extensions

- card is invalid
  - reject card and notifies customer
- card is stolen
  - swallows card and notifies bank
- PIN is invalid
  - prompt again and swallows card and three wrong attempts
- Amount is more than amount available in bank account
  - inform customer
- Amount not available in the machine
  - inform customer and indicate the limit
- ATM out of paper
  - display notice on screen out of service
  - don't take any cards
- ATM out of cash
  - display notice on screen out of service
  - don't take any cards

- ATM can't connect to bank server
  - display notice on screen out of service
  - don't take any cards

# Special Requirements

- All characters must be legible within 1 meter from the ATM
- Delays of not more than 30 seconds for all responses

# Data Variation List:

• All data should be 256-bit AES encryption

# Miscellaneous:

• Anything we can do to improve user experience