

Lab-Test (27/10/2017)

ATM System

Subject: Software Engineering

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Analyze the diagram above and do the following tasks:

a) Explain about relationships in the above use case

Association:

1. Association exist between Operator and System-startup.
2. Association exist between Operator and System-shutdown.
3. Association exist between Customer and session.
4. Association exist between Banker and Transaction.

Includes:

1. Session uses/includes Transaction.

Extends:

1. Invalid Pin is an extension of Transaction.

Inheritance:

1. Withdrawal has inheritance from Transaction.
2. Transfer has inheritance from Transaction
3. Deposit has inheritance from Transaction
4. Inquiry has inheritance from Transaction

b) Does this use case model require any modifications?

NO

c) Write descriptive use case for withdrawal use case

Actors:

Primary Actor: Customer.

Scecondary Actor: Operator and Banker.

Use Case:

Use case Title: Withdraw money from ATM.

Pre-condition:

1. User must have electricity and internet connection.
2. Cash Available in ATM
3. Customer must have ATM card and valid pin.

Trigger: To use ATM for cash withdrawal

Scenario:

1. Customer inserts the ATM card into the machine.
2. Customer enters valid pin.
3. ATM authenticates the Account
4. ATM displays the Account access options.
5. Customer selects "Withdrawal"
6. ATM asks customer to enter the amount to required Withdrawal.
7. Customer enters the amount.
8. ATM asks for the Receipt roll out.
9. Customer enters YES for receipt.
10. ATM machine roll out the cash and receipt.
11. Customer takes cash out of the ATM machine.
12. ATM rolls out the ATM card.
13. Customer takes out the ATM Card
14. ATM asks for Transaction again.
15. Customer enters "NO"
16. ATM shows Advertisements.

Post Conditions:

1. The user has received their cash and the internal logs have been updated.
2. The logs have been updated accordingly.

Exceptions:

1. Loss of internet connections or electricity during the Withdrawal

Frequency of Use: can be used 24/7.

Channel to the Actors: ATM.

Channel to the secondary actors: DATA servers and PC based system.

d) Draw activity diagram of the Withdrawal use case.
On VISIO, to be uploaded