THEORY ASSIGNMENT: 02

ASSIGNMENT NAME: Report on ATM Activity Diagram

COURSE TITLE: System Analysis & Design
COURSE CODE: CSE-325

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Basic Concept

The Automated Teller Machine (ATM) is a self-service machine that dispenses cash and performs some human teller functions like balance enquiry, bills payments, mini statements, Fund Transfer, Cash Deposit and so on. ATM transactions are carried out through the use of a debit/credit card which enables the card holder(s) to access and carry out banking transactions without a teller. With ATM, customers can access their bank deposit or credit accounts in order to make a variety of transactions mentioned earlier. If the currency being withdrawn from the ATM is different from that in which the bank account is denominated the money will be converted at an official exchange rate. Thus, ATMs often provide the best possible exchange rates for foreign travellers, and ATM is widely used for this purpose.

Some Activities of ATM Machine

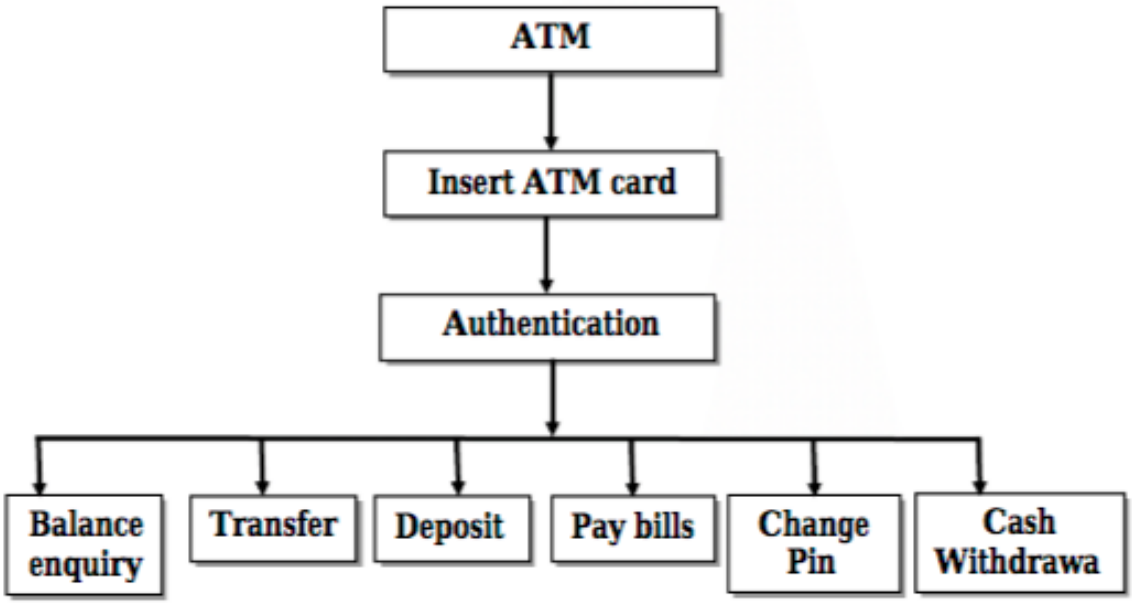

Fig. 1. Some Activities that can be performed on ATM

Cash withdrawal activity diagram of ATM

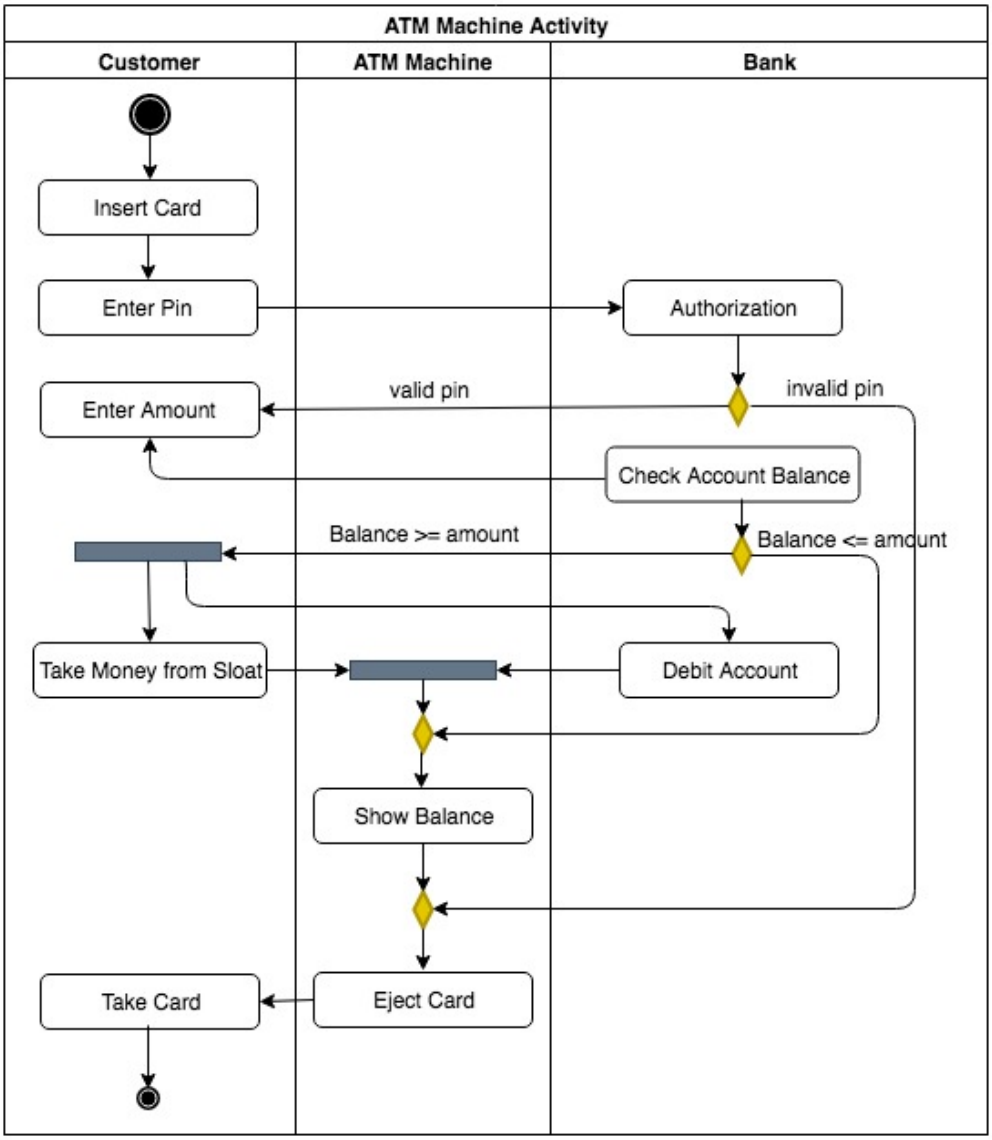

Fig. 2. Activity diagram for ATMs using cash withdrawal a case activity

Flow chart of Cash withdrawal Activity

The algorithm or flow of operation is as listed in 1-10. Figure 2, shows the activity diagram for ATMs for cash withdrawal a case activity

1. Insert your ATM card
2. The system asks your PIN number
3. The system authenticates your PIN number
4. The system displays the type of transactions on the screen
5. Choose the transaction to be performed
6. System ask if you wish to print the receipt of your transaction
7. Click Yes (if you want receipt), and No (if you don't want receipt)
8. After completion of transaction, system ask whether you want to perform another transaction
9. If YES step 1-7 will be repeated, if NO, the machine will eject your card, and then prompt the user to remove his/her card.
10. After completion of every transaction the machine print the receipt of transaction if YES to question 6, otherwise no receipt.

Class Diagram

Class Diagram:- Class diagrams describe the static structure of a system, or how it is structured rather than how it behaves.
These diagrams contain the following elements:

1. Classes , which represent entities with common characteristics or features. These features include attributes, operations, and associations.
2. Associations , which represent relationships that relate two or more other classes where the relationships have common characteristics or features. These features include attributes and operations.

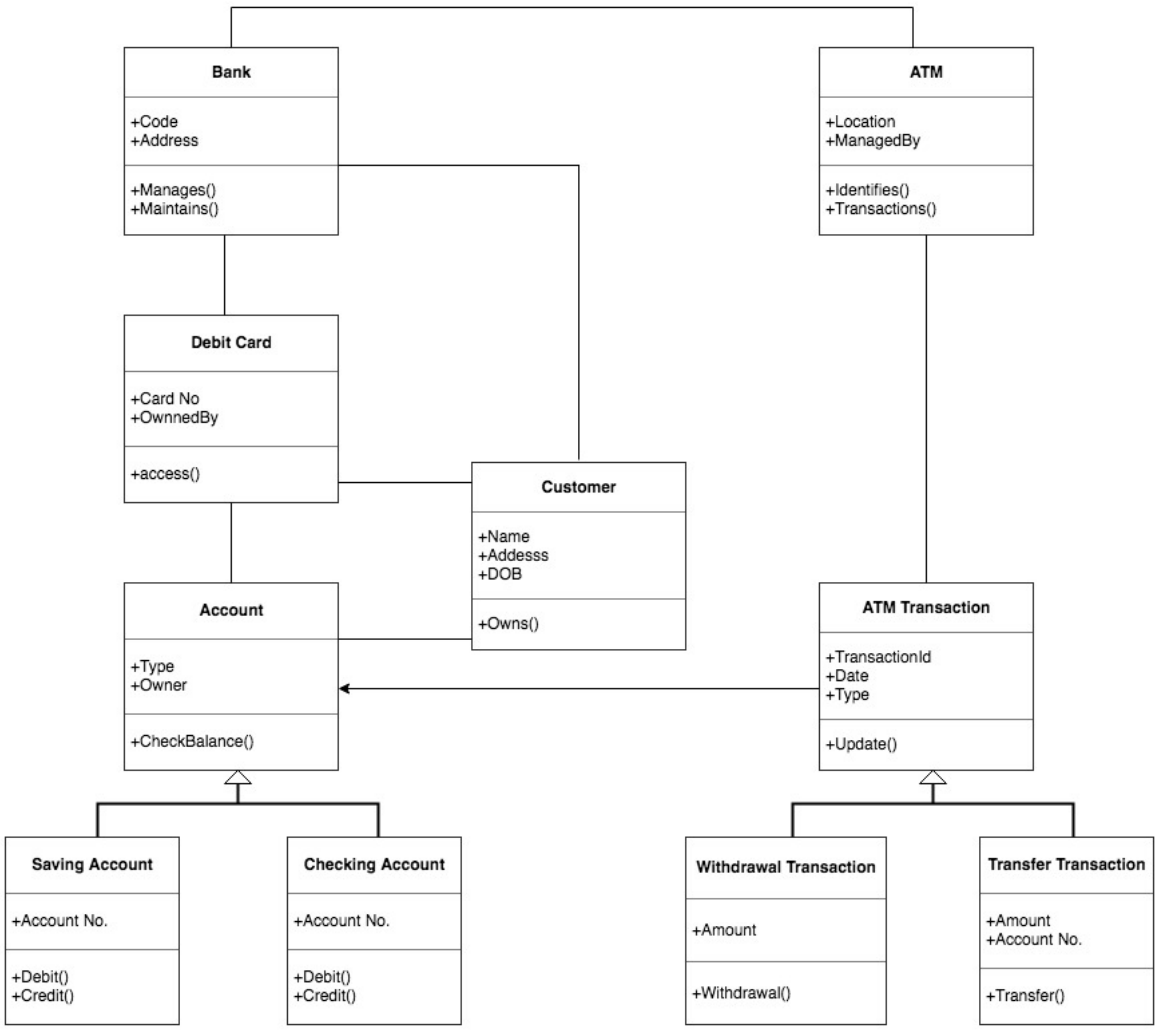

Fig. 3. Class Diagram of ATM Machine Activity

Use case Diagram

Use Case Diagram: Use case diagrams describe the functionality of a system and users of the system.

They contain the following elements:

1. Actors , which represent users of a system, including human users and other systems
2. Use cases , which represent functionality or services provided by a system to users Here, is a use case diagram for the ATM System.

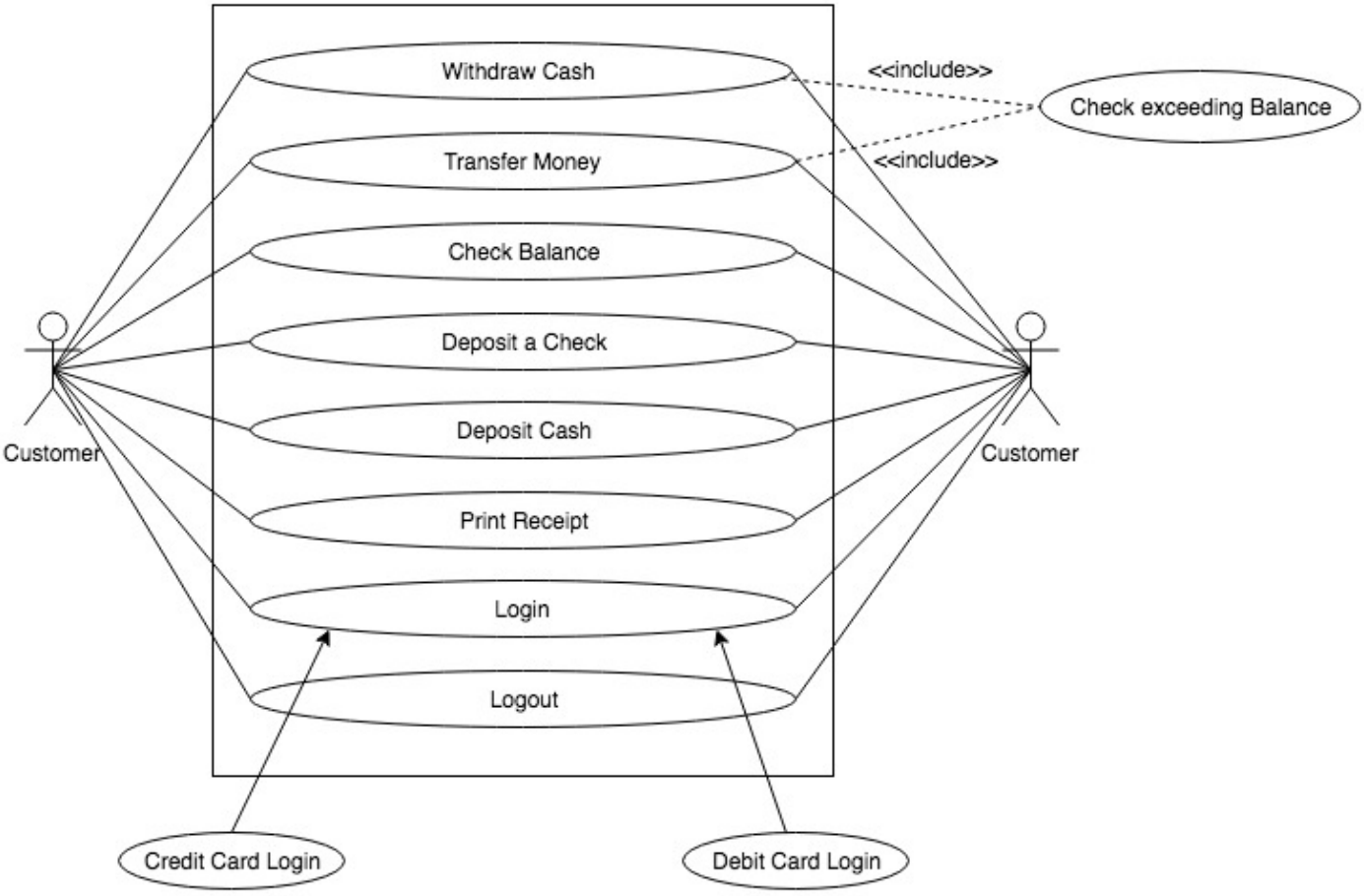

Fig. 4. Use case Diagram of ATM Machine Activity