

ITSE ASSIGNMENT

BANK ATM

DESCRIPTION

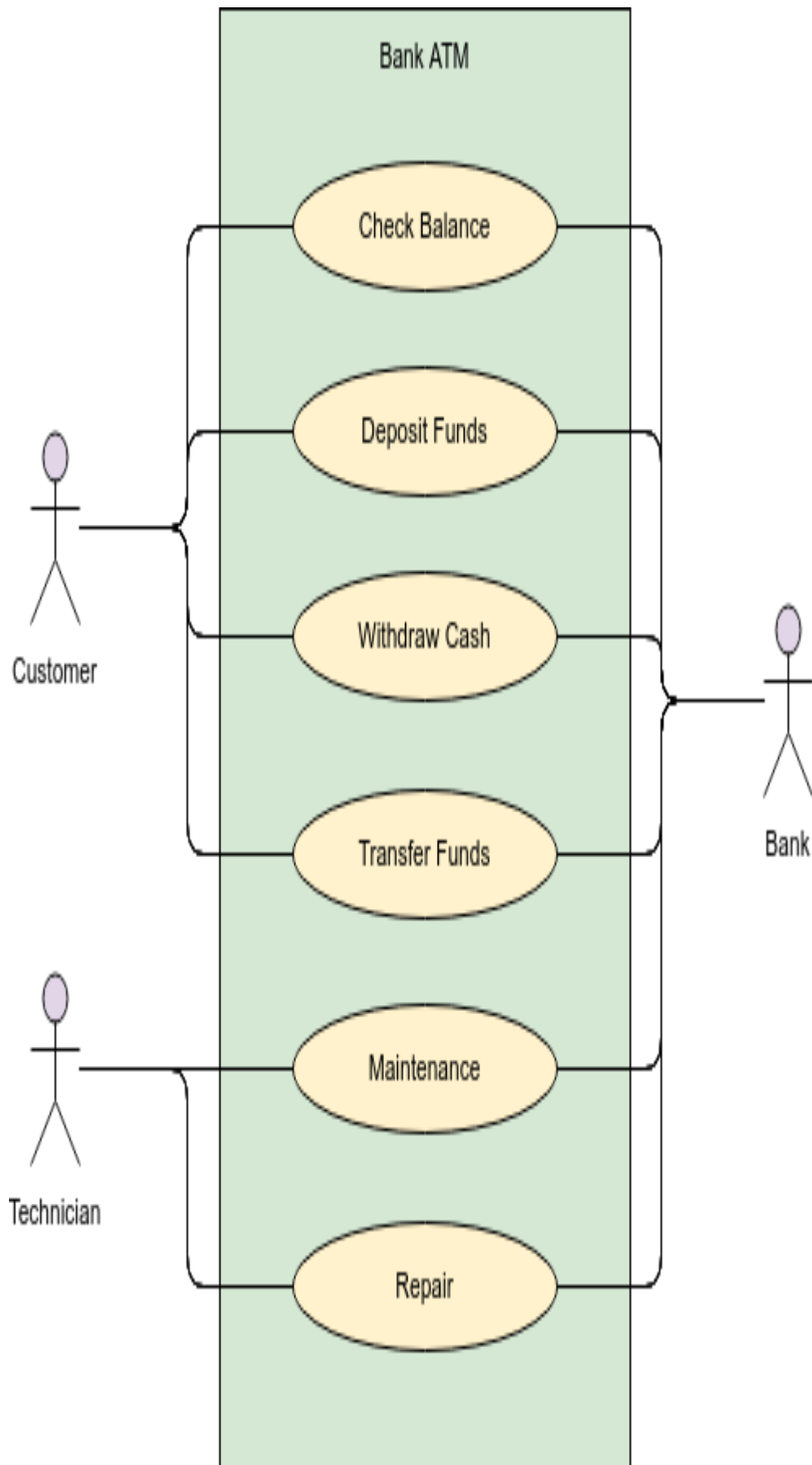
An **automated teller machine (ATM)** is an electronic telecommunications device that enables customers of financial institute to perform financial transections such as cash withdrawals, deposits, transfer funds, or obtaining account information, at any time and without the need for direct interaction with bank staff.

ATMs are known by a variety of names, including automatic teller machine (ATM) in the United States, often ATM machine, automated banking machine (ABM) in Canada,¹. Although ABM is used in Canada, ATM is still very commonly used in Canada and many Canadian organizations use ATM over ABM.¹ In British English, the terms cash point, cash machine, minibank (the official name of the Yorkshire bank ATMs), and "hole in the wall" are most widely used.¹ Other terms include any time money, cashline, nibank, time machine, cash dispenser, bankomat or bancomat. Many ATMs have a sign above them, indicating the name of the bank or organisation that owns the ATM, and possibly including the networks to which it can connect.

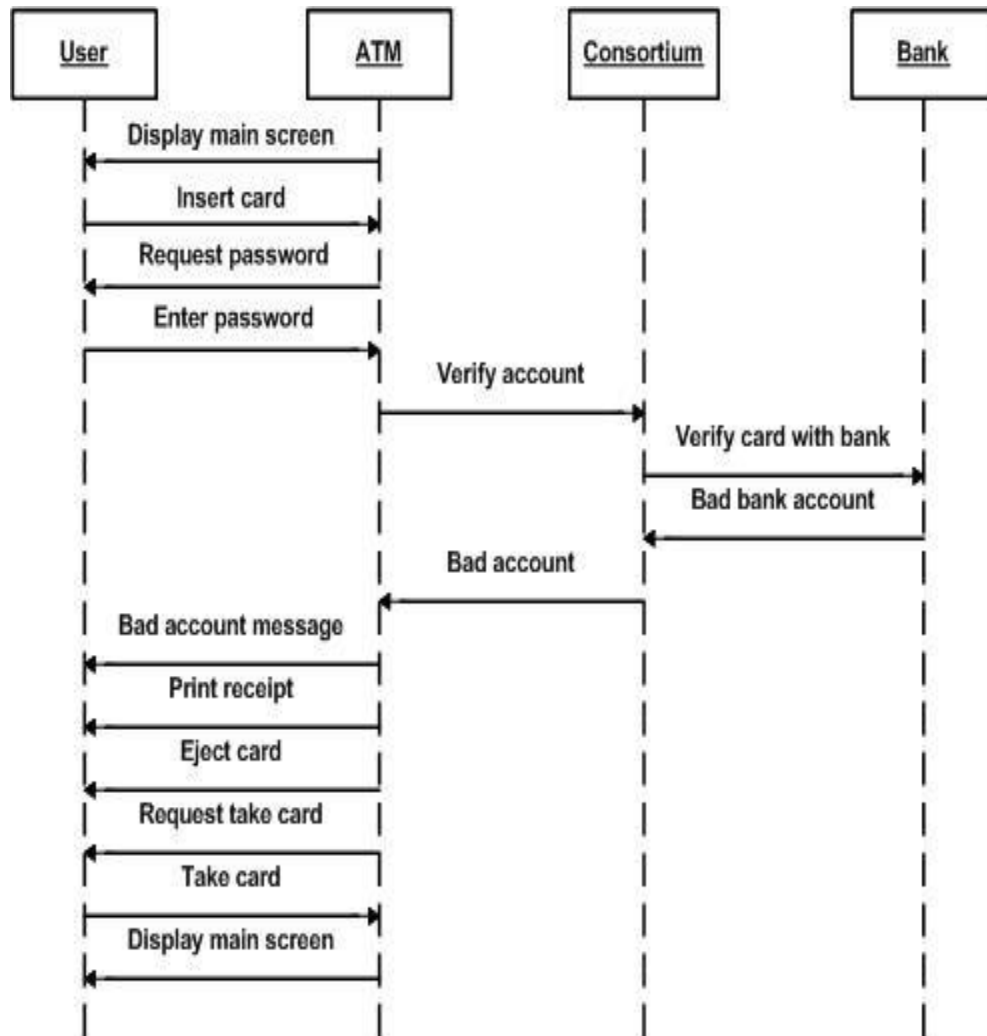
Features

- Transfer funds between linked bank accounts
- Receive account balance
- Prints recent transactions list
- Change your pin
- Deposit your cash
- Prepaid mobile recharge
- Bill payments
- Cash withdrawal
- Perform a range of feature in your foreign language.

USE CASE DIAGRAM



SEQUENCE DIAGRAM



USER SYSTEM REQUIREMENTS

1. The ATM system shall accept a unique ID from the customer.
2. The ATM system shall accept the customer selection for a range of banking transactions.
3. The ATM system shall accept the account type from the customer for deposits, balance query, and for payments on account.
4. The ATM system shall be able to process the account type in 2 seconds. The design goal is 1 second.
5. The ATM system shall accept an employee's ID code.

6. The ATM system shall provide the customer a receipt for transfer of funds.
7. The ATM system shall provide access to an authorized customer.
8. The ATM system shall accept an authorized bank employee's request to open the ATM.

FUNCTIONAL REQUIREMENTS

1. The card reader determines the account number from the entered card
2. The atm is idle state when there is no operation
3. The user is prompted to enter the code after the card is entered
4. A menu is displayed to the user with the following options
5. Withdraw, deposit, pay bill, account update, exit.
6. A transaction record can be printed upon demand
7. The card is ejected when the session is completed
8. The cash dispenser is aware of cash amount available
9. The atm can withhold the bank account
10. The atm defaults to idle state
11. The envelope feeder accepts the envelope
12. The user is prompted to make between 1 and 3 bill payment

NON FUNCTIONAL SYSTEM REQUIREMENTS

1. The atm unit consists of display, a card reader, a cash dispenser, an envelope drawer, an envelope slot, a keypad, a printer.
2. A pin must be entered within the 20 seconds.
3. The keypad is the set of buttons that includes the following
4. 10 buttons labeled from 0-9, a CLEAR button, a CANCEL button, and a dynamic button that performs different actions.

