**ATM MANAGEMENT SYSTEM**

**ABSTRACT**

The **ATM System** is the project which is used to access their bank accounts in order to make cash withdrawals. Whenever the user need to make cash withdraws, they can enter their Account Number and it will display the amount to be withdrawn in our entered bank account. Once their withdrawn was successful, the amount will be debited in their account.

The ATM System is developed in ASP.Net and back-end database as Ms-Access. ASP.Net is the one of the powerful version of Framework and object oriented programming. Hence we use this software in our project.

The ATM will service one customer at a time. A customer will be required to enter Account Number, Password – both of which will be sent to the database for validation as part of each transaction. The customer will then be able to perform one or more transactions. Also customer must be able to make a balance inquiry ,money transfer, cash deposit and etc

The ATM will communicate each transaction to the database and obtain verification that it was allowed by the database. In the case of a cash withdrawal, a second message will be sent after the transaction has been physically completed (cash dispensed or envelope accepted).  If the database determines that the customer’s Account Number is invalid, the customer will be required to re-enter the Account Number before a transaction can proceed.

If a transaction fails for any reason other than an invalid Account Number or Password, the ATM will display an explanation of the problem, and will then ask the customer whether he/she wants to do another transaction.

The ATM will provide the customer with a printed receipt for each successful transaction, showing the date, time, machine location, type of transaction, account(s), amount, and ending and available balance(s) of the affected account (“to” account for transfers).

**2. SYSTEM SPECIFICATION**

**2.1. Hardware Requirements:**

1. Processor                     – Pentium 4
2. RAM                           –4 GB
3. Hard Disk                    – 40GB
4. Mouse                          – Standard Mouse
5. Keyboard                     – Logitech Keyboard
6. Processor Speed          – 2.4GHZ

**2.2. Software Requirements:**

1. Operating System                 – Microsoft Windows
2. Front-End                              – Microsoft Visual Studio 2022
3. Back-End                                – Microsoft Access 2019

**PROJECT DESCRIPTION**

**Need For The Software:**

Now a days every one very busy in their work.  So they feel that the job must be easier so the system is used to reduce their work which is done in the ATM system.  Instead of keeping lots of paper into a record or file and it may be missed somewhere so, this system help to keep the record of the customer it also keeps the details of he customer.  It is also easy to access.

**Problem description :**

The system mainly used by the bank clients.  When a client comes to ATM centre to update and delete their account.  It reduces the time consumption and lot of paperwork.  For any single operation it involves numerous references and updating also takes subsequent changes in other places.

MODULES

|  |
| --- |
| 1. Create Account User |
| 1. Login User |
| 1. ATM Management Process |
| 1. Withdraw Amount |
| 1. Cash Deposit |
| 1. Money Transfer |
| 1. Balance Enquiry |
| 1. Mini Statement |
| 1. Password Change |
|  |

FLOW CHART

User Can Access

Cash Deposit

Create Account

Money Withdraw



Password Change

Mini Statement

Login Account

Fund Transfer

Balance Enquiry

Customer Operations:

In the customer operation each and every customer will be having a 16 digit account number and

a 4 digit PIN number to access his account. If these account details are satisfied then the

following operations can be done by the customer.

User Operations:

• Creating Account From User

• Login Account From User

• Withdrawal of cash from the ATM

• Cash Deposit

• Money Transfer

• Balance Enquiry

• Mini Statement

• Password Change

REGISTER:

1.Create Account From User:

If a customer creating an account then the details of the user like,

account holder name, address, pan card number, adhar card number, mobile number, age, date of birth, …etc which are all necessary for the ATM processing has to be inserted into the DB.

If the details of the user in entered then simultaneously it has to generate account number also. The account number of the user must be 3 digit and application should be capable of generating the account number automatically and also password for the account set the user.

2.Login Account From User:

Once user can creating account successfully then user can login the account in ATM machine then user can process all the ATM transactions below.

Transactions:

1.Withdraw Money:

Once user can login on ATM select the process choose withdraw then user can entered account number then choose amount to withdraw Once all the details verified correctly then debited amount will be added to the database.

2.Cash Deposit:

User can deposit the amount in ATM machine then ATM machine want to the user account number then deposit amount all the details are correct machine show deposited successfully.

3.Money Transfer:

User want to transfer amount one account to another account that time user can use money transfer section. Once user enter this section machine want to beneficiary account number then it will check database exist this account number or not If it will be exist can continue process otherwise it will show please enter correct beneficiary account number. If it is correct enter amount to be transferred then amount will be debited user account and same time amount credited beneficiary account.

REPORTS:

1.Balance Enquiry:

User can be checking balance on ATM MACHINE to go balance enquiry button that page will show the account balance from the user.

2.Mini Statement:

User can check to last one month transaction details go to the mini statement section grid view will be show the all last transaction with full description.

3.Password Change:

User want to change my account password then go to the password change section then machine want the user to old password once old password is correct then enter the new password then it will be updated into back end DATABASE.

CONCLUSION:

An automated teller machine(ATM) is an electronic telecommunications system that allows users of banking firms to conduct financial transactions. We can create an ATM program in ASP .NET to display ATM transactions, and the user can withdraw money, deposit money, check the balance, mini statement, money transfer, password change, and exit from the ATM.