

ATM Management System (Synopsis)

Submitted by: Atul Joshi

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Roll No.: 7576

ABSTRACT

ATM System:

The **ATM System** is the project which is used to access the bank accounts in order to make cash withdrawals. Whenever the user needs to make cash withdraws, they can enter their PIN number (personal identification number) and it will display the amount to be withdrawn in the form of 100's 500's and 2000's. Once their withdrawn was successful, the amount will be debited from their account.

The ATM System is developed in VB.Net and back-end database as Ms-Access. VB.Net is the one of the powerful versions of Framework and object-oriented programming. And MS-Access provides us the facility of databases. The ATM will service one customer at a time. Also, customer must be able to make a balance inquiry of any account linked to the card.

If the database determines that the customer's PIN is invalid, the customer will be required to re-enter the PIN before a transaction can proceed. If a transaction fails for any reason other than an invalid PIN, 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.

INTRODUCTION

Introduction to the ATM system:

“**Automated Teller Machine**” enables the clients of a bank to have access to their account without going to the bank. This is achieved only by development the application using online concepts.

The product also provides services like request for cheques, deposit cash and another advanced requirement of the user. The data is stored in the database and is retrieved whenever necessary. The implementation needs ATM machine hardware to operate.

To develop this ATM system the entire operation has been divided into the following step:

1. verification process
2. language, service and account selection
3. Banking services
4. Transactions
5. Special services

The program is designed in such a way that the user has to card and pin number. Once verified, he is provided a menu and he/she had to enter the option provided in the menu. For example, when the user wants to know Balance than he/she had to enter the option for Balance Inquiry provided in the main menu. When the option is entered alone with the respective argument, then the balance is displayed on the screen.

The user also must be given option to browse through the pages like previous page, next page, etc. The user may experience a delay in retrieving or viewing the data, when there are many users logged on to the same bank branch system.

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 the customer. It is also easy to access.

Need for the ATM system:

Millions of times per day around the globe people are instantly withdrawing money at automatic teller machines (ATMs). Given the fast-pace of the world today, it is not surprising that the demand for access to quick cash is so immense. The power of ATMs would not be possible without secure connections. The final act of ATM dispensing cash is the result of an amazingly fast burst of the customer never sees, but a trust is being done in a confidential manner.

Feasibility Study

Technology: This system is technically feasible, because the system activated by computers and recent technology. We use client / server technology which is powerful and very user friendly.

Finance: It is financially feasible. There is no need of spending over money. Mainly this system constructed by existing devices only. Since we use visual studio dot net as a front-end it was most power-full. This project reduces the number of workers wage also.

Time: The time taken to access the account is very less and avoids unnecessary waiting that was in the traditional system. Although it uses less time but its performance is very well.

Resources: This system will use the well-known resources. Where there is no need of any special kind of resource. It uses only the required databases, tables only.

System Specification

Hardware Requirements:

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

Software Requirements:

- | | |
|---------------------|--------------------------------|
| 1. Operating System | – Microsoft Windows 10 |
| 2. Front-End | – Microsoft Visual Studio 2019 |
| 3. Back-End | – Microsoft Access 2019 |

Advantages of ATM

Provide Convenience to Customers:

Customers are able to do financial transactions conveniently with the use of ATMs. They can avail various banking services and can-do payments seating at their home comfort. Various payments for online shopping, at restaurants and various other places payment can be made using ATM. Nowadays ATM are installed at all important places like railway station, airports, hospitals etc. which facilitate the people in withdrawing their money whenever they want.

Offer 24×7 Service:

ATMs provides 24 hours a day, 7 days a week and 365 days a year to all its customers. Unlike bank branches, it does not have any time schedule for its operations. Customers can access their bank accounts and withdraw their money at any time of day or night as per their convenience.

Reduce Banks Workload:

ATMs have an efficient role in reducing the workload of the banking industry. It has relieved customers as they can avail various banking services by using ATM without visiting the bank branches. Customers are not required to stand in long queues and fill up various forms for availing basic withdrawal and deposit facilities. It helps in reducing the work pressure on bank staff and provides flexibility to its operations.

Access to Bank Account from Anywhere:

Account can be accessed by customer using ATM from any part of the country or even worldwide. ATM machines are installed in different parts of the country at all convenient places. Customers don't need to carry cash while travelling and they can easily withdraw money any place they are travelling.

Minimizes Transactions Cost:

ATM has reduced the manpower need as all transactions are processed and monitored using automated computerized systems. There is less human intervention in work operations which reduce overall cost.