Mini ATM System

Diploma in information communication Technology

Final Project Proposal

20.1P

School of Computing

National Institute of Business Management

Kandy

Mini ATM System

Final Project Proposal

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1. Introduction

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.

When the product is implemented, the user who users this product will be able to see all the information and services provided by the ATM, when he enters the necessary option and arguments. The product also provides services like request for cheques, deposit cash and other 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 or similar simulated conditions can also be used to successfully use the developed product.

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

i. Verification process
ii. Language service and account selection
iii. Banking services
iv. Transactions
v. Special services

The program is design in such a way that the users have 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 view the list of payment history provided in the main menu. When the option is entered alone with the respective arguments, then the payment history is displayed on the screen.

The user also must be given option to browse thought 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 systems.

1.System Requirements:

1.2 Hardware Requirements:

- Processor :- Intel Pentium 4 or later or compatible
- Hard Disk :- 410GB or more
- RAM:- 1GB or more
- Printer :- Any
- Monitor :- SVGA Color Monitor (Touch Screen or simple)
- Pointing Device :- Touch pad or keys

1.3 Software Requirements:

- Operating System :-Microsoft windows XP or Later or Equivalent
- Front End :- Visual Basic 6.0
- Back end :- oracle 8i

2. System analysis :

3.1 Study of current/Existing system:

In the manual system, firstly the bank manager and its staff have to manage information regarding the accounts and transactions of customers manually.

Doing this manual transaction of customers were to be maintained. This process is time consuming and it requires a great manual effort.

Disadvantages:

- More time is consumed.
- More hard work to maintain all records.
- Bulk of paper is to be searched for a single search.

3.2 feasibility study:

3.2.1. Technical Feasibility:

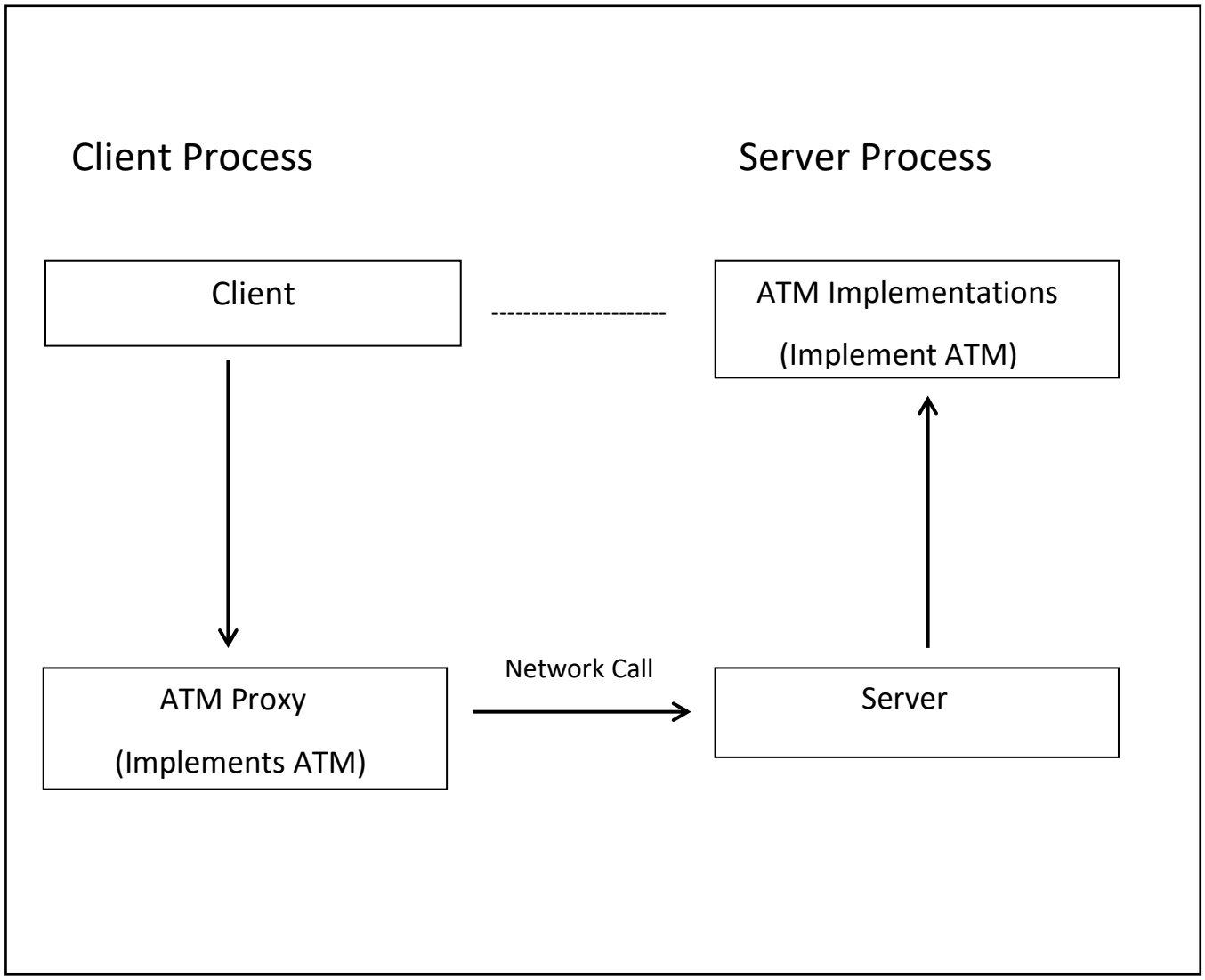
The system is being developed in visual Basic 6.0 it provides comprehensive function to make it user friendly. The data entry and report generation is also made easy. Backup and restore of the database facility are also provided. It also provides easy retrieval of data. the machine configuration also supports this software.

3.2.2. Social feasibility:

As this system is user friendly and flexible some problems will also be solved which employee may be facing when using existing system. So we can say that system is socially feasible.

3.2.3. Economical feasibility: The cost of converting from manual system to new automatic computerized system is not probably more. For construction of new system, the not rooms and its facilities are available so it does not require any extra resource only the software requirement is there

Architecture



PROJECT 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 PIN number (Personal Identification Number) and it will display the amount to be withdrawn in the form of 50's, 100's and 500's. once their withdrawn was successful the amount will be debited in their amount.

The ATM system is developed in VB.NET and back-end database as MS- Access. VB.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 ATM card number, personal identification number (PIN) both of which will be sent to the database for validation as part of each transaction. The customer will then able to perform one or more transaction. Also customer must be able to make balance inquiry of any account linked to the card.

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 envelop accepted.) 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, and machine location type of transaction, accounts amount and ending and available balance of the affected account "to" account for transfers.

Non-Functional Requirements:

ATM-NFR-X	ATM non- functional requirement
ATM-NFR-1	The ATM unit consists of a display, a card reader a cash dispenser an envelope drawer, an envelope drawer, an envelope slot a keypad and a printer.
ATM-NFR-2	The Keypad is a set of buttons labeled with numbers 0 to 9, an Okay button, a CLEAR button, CANCEL button and dynamic button that perform different action
ATM-NFR-3	A PIN must be entered within 20 seconds.
ATM-NFR-4	The user must enter PIN correctly within three attempts.
ATM-NFR-5	ATM suspends further access using particular card if the associated PIN is entered incorrectly 3 times in succession.
ATM-NFR-6	ATM must be secure
ATM-NFR-7	ATM can be shut down and restarted.
ATM-NFR-8	The envelop drawer can be open and refilled wit envelop
ATM-NFR-9	The envelop feeder can be open so any envelops that have been deposited can be removed
ATM-NFR-10	The cash dispenser can be opened and refilled with cash
ATM-NFR-11	The printer can be opened and refilled with Paper.