School of Computer Science and Engineering

Lovely Professional University

Phagwara, Punjab (India)

Course: JAVA Programming

Course Code: CSE310

PROJECT REPORT
Section:- K21KA

ON

ATM MANAGEMENT SYSTEM

Submitted By:

Nitesh Srivastava	**12110770**	**32**
V.Abhinav Reddy	**12100397**	**52**
Shekhar Sharma	**12114469**	**55**

Under the Guidance of

Amarinder Kaur mam

CERTIFICATE

It is certify that the project work entitled <ATM (AUMATED TELLER MACHINE)" in JAVA which is being submitted by Nitesh Srivastava, Roll No. 32, V.Abhinav Reddy, Roll No. 52 and Shekhar Sharma Roll No. 55 in partial fulfilment of the requirement for the award of the degree of Bachelor's of Computer Science (4th sem) is an authentic work carried out by Successfully .

ACKNOWLEDGEMENT

The project work mentioned in this report, is the result of cumulative effort over a period an entire semester in course of which, we have received intellectual support from various sources. It is pleasure to express our profound sense of gratitude to all those who have contributed richly to this project and have been highly instrumental in making this a success. We are highly indebted to our computer lecturer, Amrindar kaur mam for giving us opportunity to work on this project.She has been an invaluable source of guidance and motivation at all stages of our work.

INDEX

INTRODUCTION

- We are very glad to introduce my project **"AUTOMATED TELLER MACHINE"** Now a day each company or organization prefers the computerized paper-work. Definitely the computer system is more reliable than the manual works. The common human errors can be eliminated with the help of system. An Automated Teller Machine (ATM) is a computerized telecommunications device that provides the customers of a financial institution with access to financial transaction in a public space without the need for a human clerk or bank teller. On most modern ATMs, the customer is identified by inserting a plastic ATM card with a magnetic stripe or a plastic smartcard with a chip that contains a unique card number and some security information.
- ATMs are known by various other names including automated banking machine, money machine, bank machine, cash machine and Any Time Money in India. An ATM card (also known as a bank card, client card, key card or cashcard) is an ISO 7810 card issued by a bank, credit union or building society, Unlike a debit card, in-store purchases or refunds with an ATM card can generally be made in person only, as they require authentication through a personal identification number(PIN). In other words, ATM cards cannot be used at merchants that only accept credit cards

PROBLEM IDENTIFICATION:

Automated Teller Machine (ATM) system is banking software developed to give facility of bank customer for 24hours & nearer to your location; therefore customer can do their transaction at any time at any place.

- ❖ This software is also help for bank, to minimize crowding of customer in bank premises & pressure of work on bank servants. Now a day each company or organization prefers the computerized paper-work.
- Definitely the computer system is more reliable than the manual works. The common human errors can be eliminated with the help of system. The main objective of ATM system is to help the organization in automating the whole manual processing of the existing system. This project should support multiuser environment. The system is fully automated. ATM system is designed to solve the purpose of clarifying system requirement. This system should be able to handle extremely large volumes of data. This system should capable to keep track of all detailed description of the account holder of banks. The following details are involved in this ATM system project,

  - ●ATM Card holder /account /bank customer detail.
  - ●Daily transaction detail of each ATM card holder.

EXISTING SYSTEM:

- creates complexity in doing calculation of collection of money because it is manual. Existing system creates problems in maintaining records of book keeping. Existing system, there is large documentary work so it requires space for its storage. To do the documentary work there is need of extra staff worker. Existing system takes much more time to updating process of records. Due to existing system crowding of customer in bank premises are more &pressure of work on bank servants are also more.

Need for the new system:-

- The proposed system need to maintain all the records in computerized form. It is useful to store record systematically & accurately by using this system. It is useful to reducing the extra work which maintains the records of bookkeeping & paper less work. We can easily handle data efficiently & effectively. The storage space, extra workers, missing files all these possibilities are decreased through this system. This system helps to save time & cost spending on documentation. With the help of this system ATM card holder can see all the records about his account only at any time efficiently. The most important facility provided by this system is that, there is no any possibility of miss any records. This system is useful for recording daily transactions done by customers

- So, this system helps to overcome the problems of previous system. An ATM card is an ISO card issued by a bank, credit union or building society. Unlike a debit card, in-store purchases or refunds with an ATM card can generally be made in person only, as they require authentication through a personal identification number or PIN. In other words, ATM cards cannot be used at merchants that only accept credit cards.

Scope of the work:-

As this is software it can be used by a wide variety of banks to automate the process of manually maintaining the records related to the each transaction of bank account holder. The main goal of this application is to provide very reliable &efficient service to bank account holder at any time & any location. This system will cover the following modules,

1. Cash Withdrawal.
2. Balance Enquiry.
3. Mini Statement.
4. PIN Change.
5. Cash Deposit.
6. Transfer Fund.

Detail information about system modules.

1.Cash Withdrawal :-

It mainly used for withdrawal of cash as per customer demand.For any authorized ATM card holder the ATM system requests for its ATM no &PIN no then customer to login in their accounts, then amounts are given to systemand customer can withdraw amount.

2. Balance Enquiry :-

It refers to enquiry of bank balance of an authorized ATM cardholder account to check for the resulting balance after certain transactions.

3. Mini Statement:-

It refers to enquiry of last ten transaction of an authorized ATMcard holder. It includes deposit & withdrawal amount of transaction & alsocontains respective transaction date and current available balance.

4. PIN Change:-

It refers to the Change of PIN no of an authorized ATM cardholder. I require giving system old PIN no of the ATM card & then givingnew

5. Cash Deposit:-

It mainly used for deposit cash amount to their bank account as percustomer demand. It is easy process of deposit amount to their bank accountswithout filling deposit sleep.

6. Log out:-

After completing all the requirement of their needed user can successfully log out.

Feasibility study:-

Feasibility Study is essential to evaluate cost & benefit of the proposed system. This is very important step because on the basis of this; system decision is taken on whether to proceed or to postpone the project or to cancel the project. Feasibility study forms the most important phase in the system development life cycle so that the people who are affected by the system benefit from the change. This involves some very crude estimates of schedules of completion of the proposed system and the cost of the system. This study ensures that the system meets the objectives of the organization before it can be approved for development. It also involves the study of different risks involved in developing the system.

Hardware Requirements:-

- Processor: Pentium 4 or onwards.
- Hard Disc: 80GB.
- RAM: 128MB.
- Monitor: 15= Color Monitor.
- Mouse.
- Keyboard.

Programming Languages Used:-

In this system we use JAVA Platform for programming language.JAVA Platform means the environment which is used to run program.JAVA is platform independent language since no only single operating system can be required by the java. All the different operating system can execute the java programming language. Java provides huge functionality that means it provide A huge library.

- ❖ Containing lots of reusable codes.
- ❖ An execution environment that provides services such as security
- ❖ Portability across operating system.
- ❖ Automatic garbage collection.

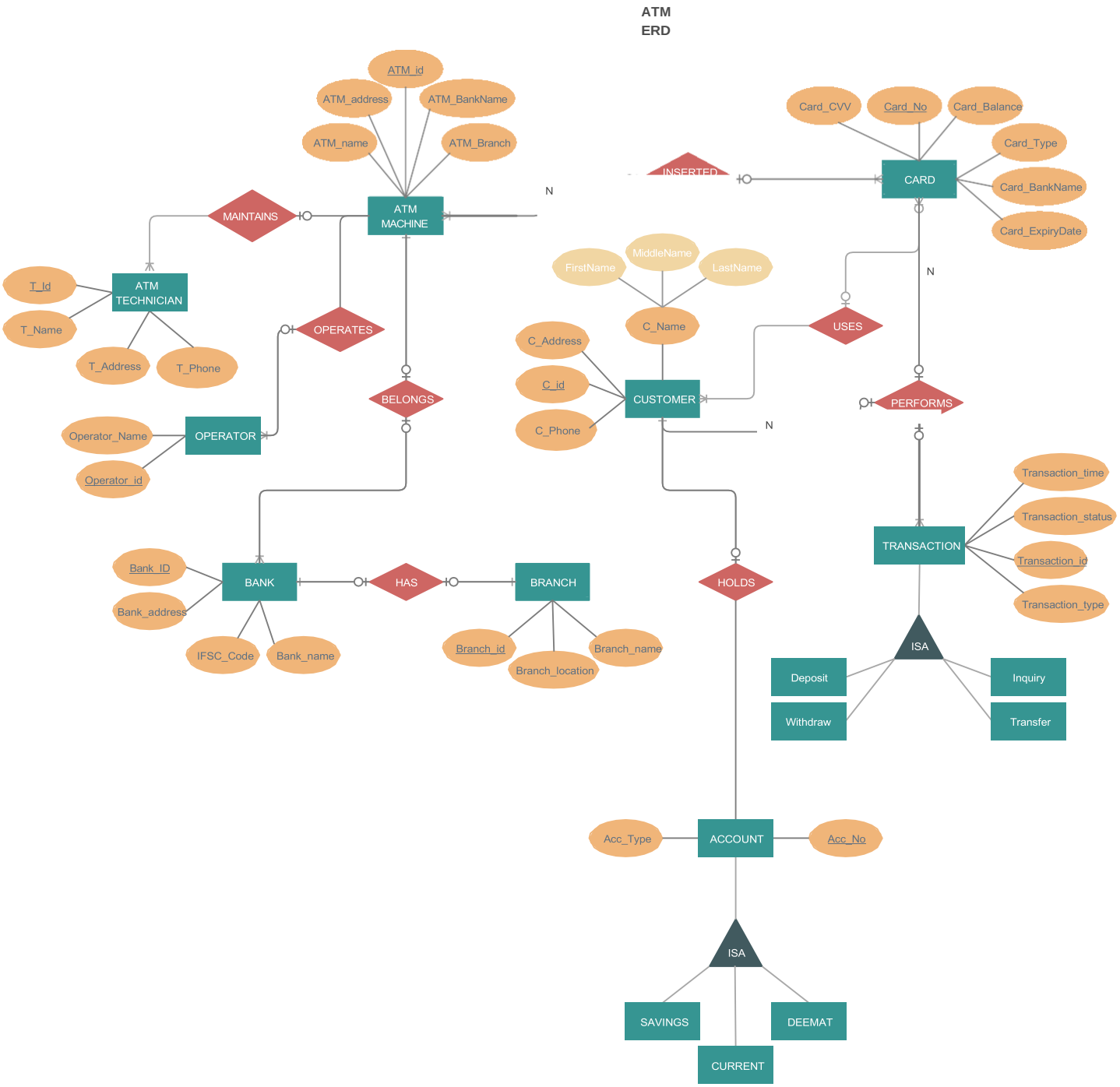
Requirement Analysis:-

- ➢ This involves studying the current system to find out how it is working and where the improvements should be made.
- ➢ These studies consider both manual and computer methods. Hence an early step in investigation is to understand situation.

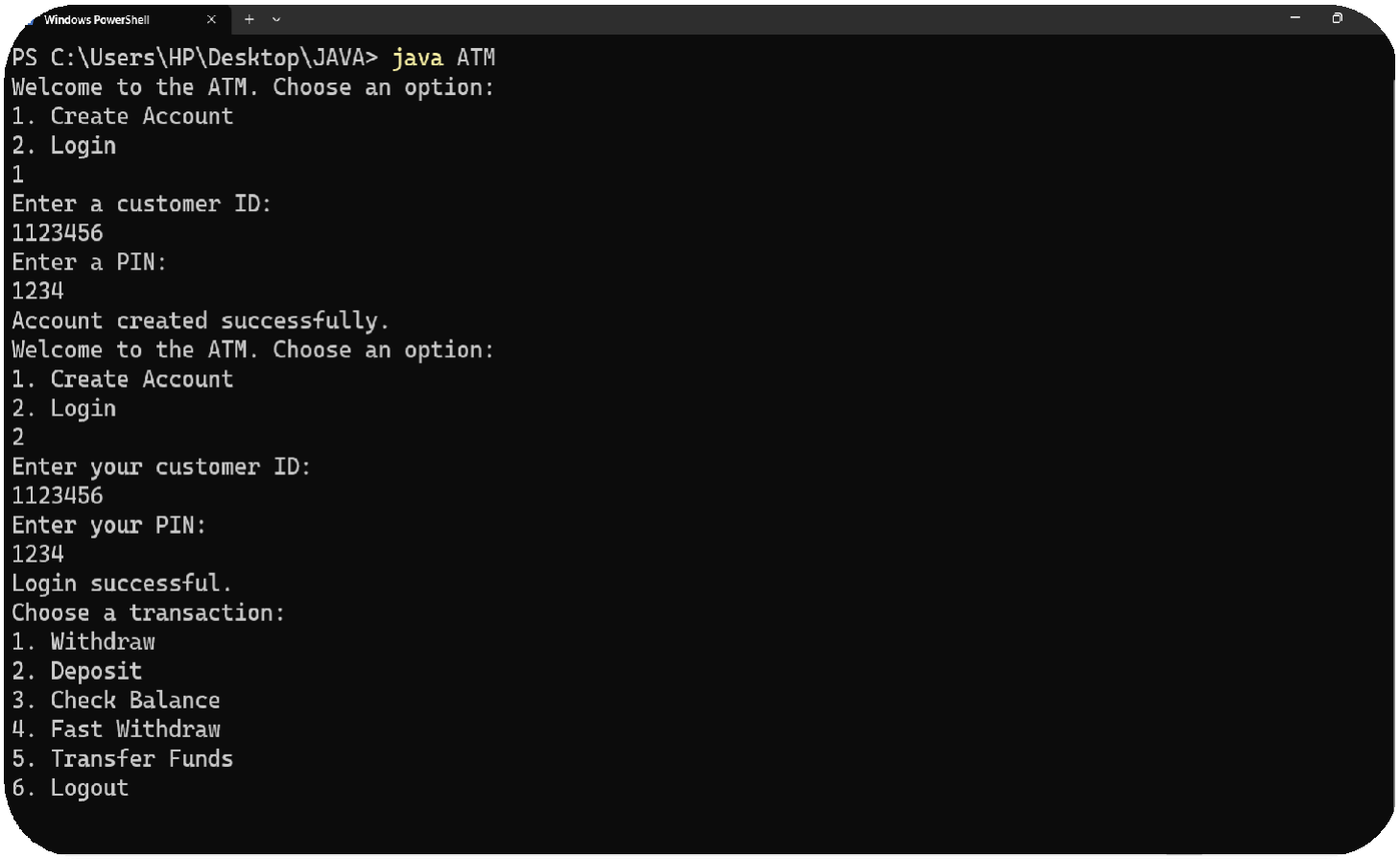
Module Description:

Student Name	Module
Nitesh Srivastava	1. Create account 2. Login 3. Project planning 4. Output choices
Shekhar Sharma	1. Implementation of check balance 2. Withdraw 3. Deposit
V Abhinav Reddy	1. Fast withdraw 2. Transfer funds 3. Project plannig

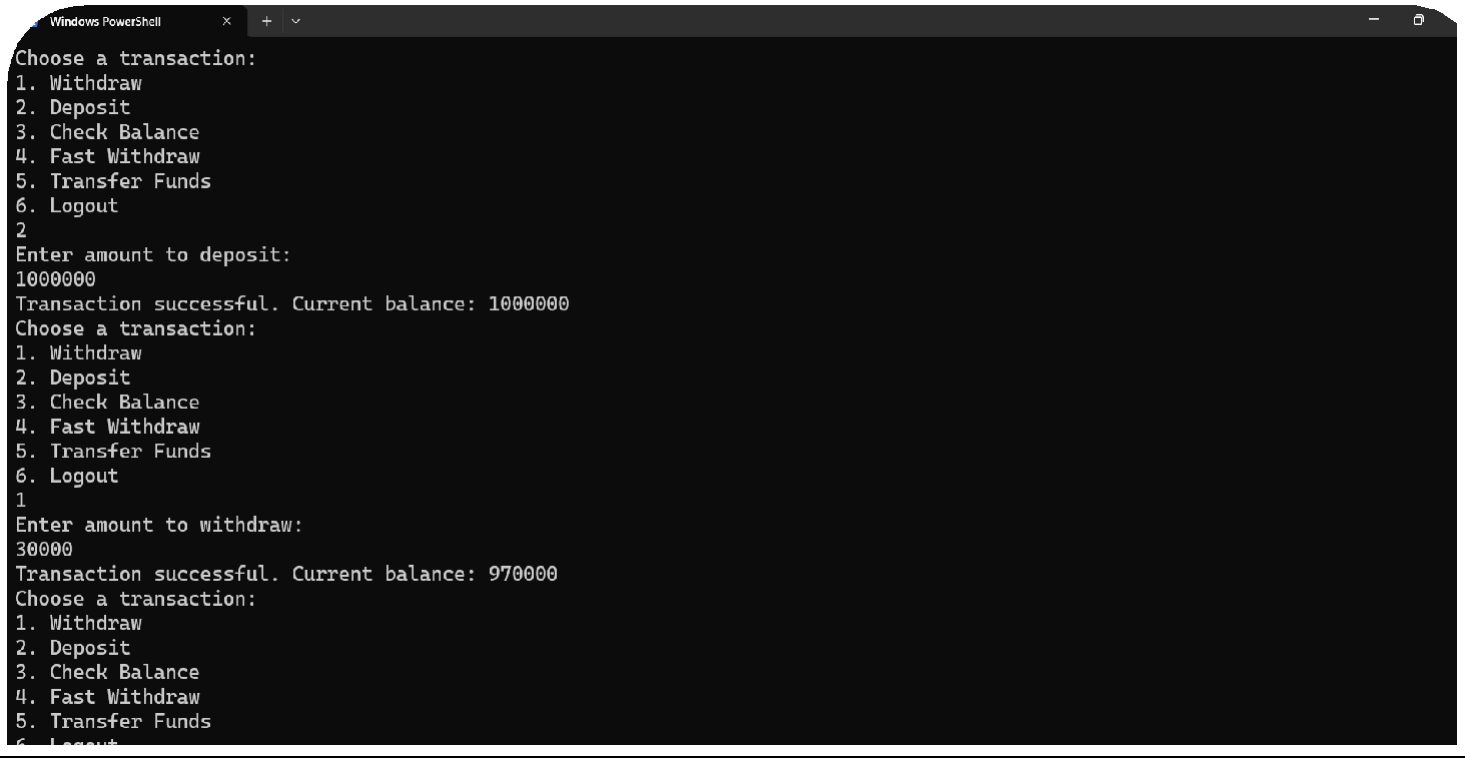
ENTITY RELATIONSHIP DIAGRAM



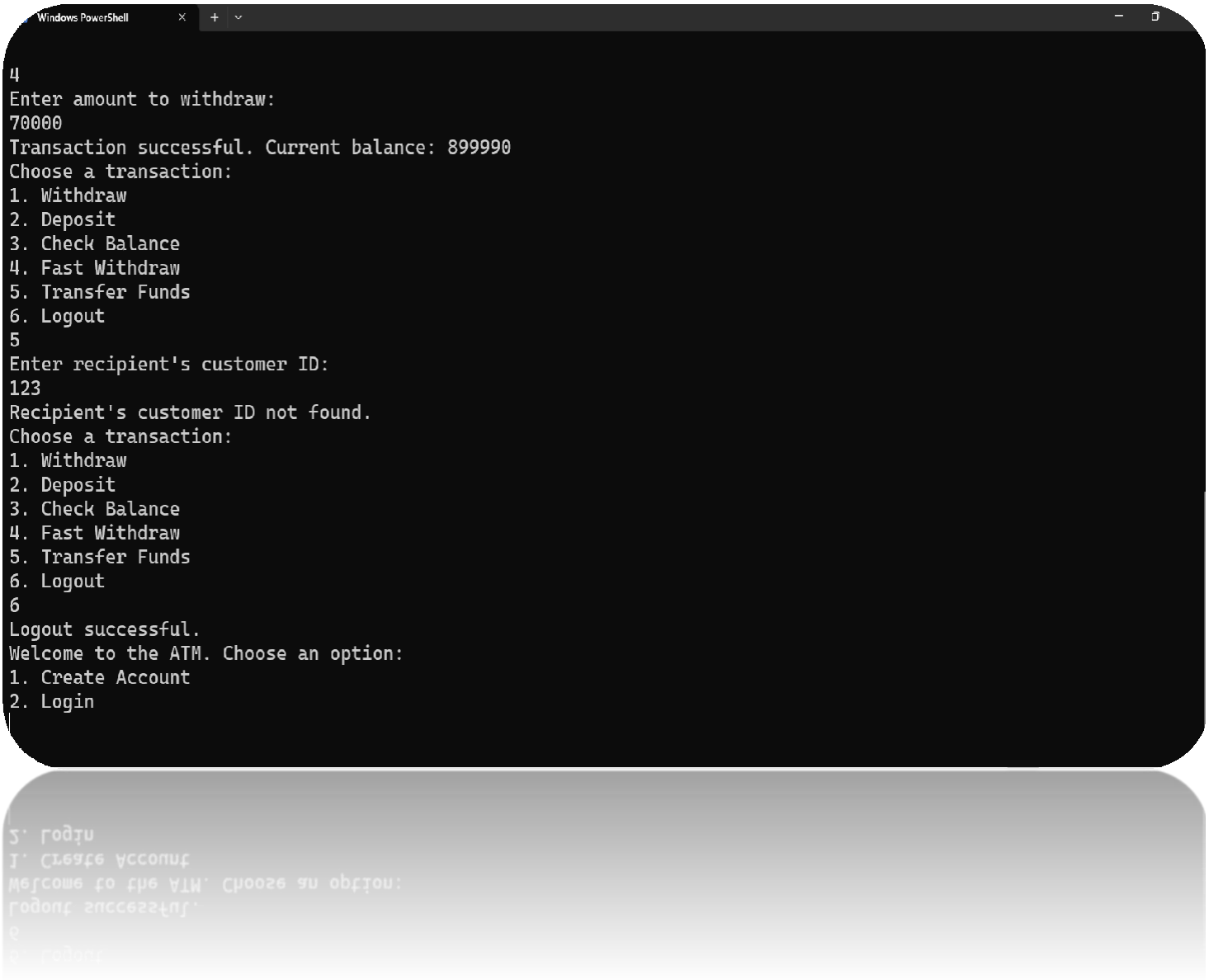
ACCOUNT CREATION AND LOGIN OUTPUT



DEPOSIT, WITHDRAW AND CHECK BALANCE



FAST WITHDRAW , TRANSFER FUNDS AND LOGOUT



CONCLUSION

- In conclusion, the ATM management system developed in this project provides an effective solution for managing and monitoring ATMs in real-time. The system's user interface is user-friendly, and the system's performance is efficient and reliable. The system's features enable bank administrators to manage their ATM network efficiently and minimize downtime.

- Future improvements to the system could include adding more advanced features such as predictive maintenance or integrating the system with other banking systems. Overall, the ATM management system developed in this project has the potential to improve the banking experience for customers and bank administrators alike.

GITHUB LINK:- https://github.com/Rajsrivastav234461/ATM-management-system