Bangladesh University of Business & Technology. (BUBT)

ATM Machine

Management System

Under Supervision of-

Assistant Professor Department of C.S.E

Bangladesh University of Business and Technology

ATM MACHINE MANAGEMENT SYSTEM

By Dept. Of CSE, Intake 41-01(Eve)

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Declaration of Authorship

We, Imran Hossen, Rajesh Chandra Barman, MD. Jakir Hossain, Ishtiak Ahmed Arnob and Rohan Rashid declare that-

1. This project is titled, "**ATM MACHINE MANAGEMENT SYSTEM** " and the work presented in it is our own.

2. We confirm that: This work was done entirely while in candidature for a B.Sc. Engineering in CSE degree at Bangladesh University of Business and Technology.

3. We own every single part of this Project.

Certificate

This is to certify that the project entitled, "**ATM Machine Managementy System**" and submitted by Imran Hossen, Rajesh Chandra Barman, MD. Jakir Hossain, Ishtiak Ahmed Arnob and Rohan Rashid. ID No. 21222203001, 21222203002, 21222203003, 21222203028, 21222203050 in partial fulfillment of embodies and their requirements work under my supervision.
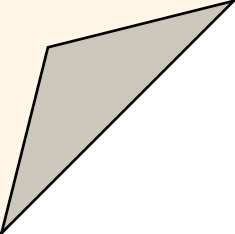
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Md. Saddam Hossain

Assistant Professor, Department of C.S.E

Bangladesh University of Business and Technology

Date: 10-March-2023

Dedication

Dedicated to our parents for all their love and inspiration. Also we express gratitude and respect from our hearts to our beloved Sir Saddam Hossain. He saw our project. We have discussed what went wrong in the project and what needs to be added.

Abstract

Generally, banking system has been working continuously for many years. Cash or paper money has been the payment mechanism for centuries in nationwide. In traditional banking methods customer will need to interact with the cashier which will be appointed by the bank to handle bank services such as withdraw money cash deposits and reporting loss of ATM cards by customers. At times when a customer should be performing any services on the bank, the process are done over the counter. In modern days, the system banking has changed in a technological way where Automated Teller Machine (ATM) was introduced.The ATM provides many functions as required, but the current method has shown few drawbacks until he loses his ATM debit card. From this point of view customers will need to perform the report through traditional methods which are manually reporting it to the bank which could delay the time taken to perform and reporting it through hotlines where it might face unexpected and scheduled maintenance. To address the current drawbacks as stated, ATM reporting system has been proposed as an alternative
method where it only requires customers to report the loss through the ATM machine which in fact could provide the ease of usage to the customers.
ATM Management System is a t management system that can be used to manage the ATM Booth Machines. The admin panel has full control over the software and it can be fully customized according to the specific needs of customers' requests and recommendations. Such as- Inquire Balance, Withdraw, Deposit and also Help Menu.That's why it's a universal project to manage the information of ATM Machine.

Approval

This project "ATM Machine Managementy System" and submitted by Imran Hossen, Rajesh Chandra Barman, MD. Jakir Hossain, Ishtiak Ahmed Arnob and Rohan Rashid. ID No. 21222203001, 21222203002, 21222203003, 21222203028, 21222203050 Department of Computer Science and Engineering (CSE), Bangladesh University of Business and Technology (BUBT) under the supervision of Md. Saddam Hossain; Lecturer, Department of C.S.E has been accepted as satisfactory for the partial fulfillment of the requirement for the degree of Bachelor of Science (B.Sc. Engg) in Computer Science and Engineering and approved as to its style and contents.

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Md. Saddam Hossain

Asistant Professor, Department of C.S.E

Bangladesh University of Business and Technology (BUBT) Date:

Chairman:

Md. Saifur Rahman

Assistant Professor & Chairman(Acting)
Department of CSE

Bangladesh University of Business and Technology (BUBT)

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CHAPTER 1:

INTRODUCTION

ATM is designed to perform the most important functions of the bank. By using plastic cards,containing all personal details of the customers and they will only need to enter their pin numbers in order to use the services. ATM is an Electronic Fund Transfer that is capable of handling many functions, until when a person loss his ATM cards. Instead of using the traditional methods which are queuing up the line and by
hotline phone call, this could be the possible alternative adding the new feature on the ATM machine, where it could be less time consuming.

1.1 Project Aim and Objective

The project aims and objectives that will be achieved after the completion of this project are discussed in this subchapter. The aims and objectives are as follow:

▪ The main purpose of this proposed idea is mainly focusing on the new feature that can be implemented as a possible
alternative to the traditional methods. Based on the traditional
methods in banking system, the bank will appoint a person, the
teller to assist the customers when the customers need to
perform any services in a bank. The customers on the other
hand, will need to request for forms and the forms will be
submitted to the counter. In order to perform, customers will
need to queue up the line while waiting for their turns.

▪ As, it will provide the short information of ypur account.

▪ To help Acccount Holder- Account Holders can see their balance in their account.

▪ To Help User-Here is a help menu that can help account holder to manage his account by using ATM machine.

1.2 Operation Environment

In computer software, an operating environment or integrated applications environment is the environment in which users run application software. The environment of a user interface is provided by an application manager and usually an application programming interface (API) to the application manager. We used Code Blocks for our development.

1.3 Development Environment:

This below table will show the configuration of the development environment used to create this ATM.

Device	- Dell Latitude E7440
Processor	- Intel Core i7
Generation	- 6th
Graphics (GPU)	- Intel 4GB
Operating System (OS)	- Windows 10
Memory (RAM)	- 8 GB (DDR3 by Samsung)
Storage (ROM)	- 512GB (SSD)
IDE (Coding Software)	- Code Blocks (Version 1.1, Build 20.03)
Coding Language	- C++
Compiler (for Code)	- GNU, GCC
Key Board	- Astrum Multimedia keyboard (Gaming Edition)
Mouse	- T WOLF (Gaming Edition)

CHAPTER 2:

SYSTEM ANALYSIS

2.1 System Requirement and Specification

In order to run this software, we are going to need a GNU & GCC compiler.

2.2 Existing VS Proposal

The proposed system is intended to make life easy. The main purpose of the project is to build software that makes everything easy. It's is so simple to use and various important task like add books and managing library.
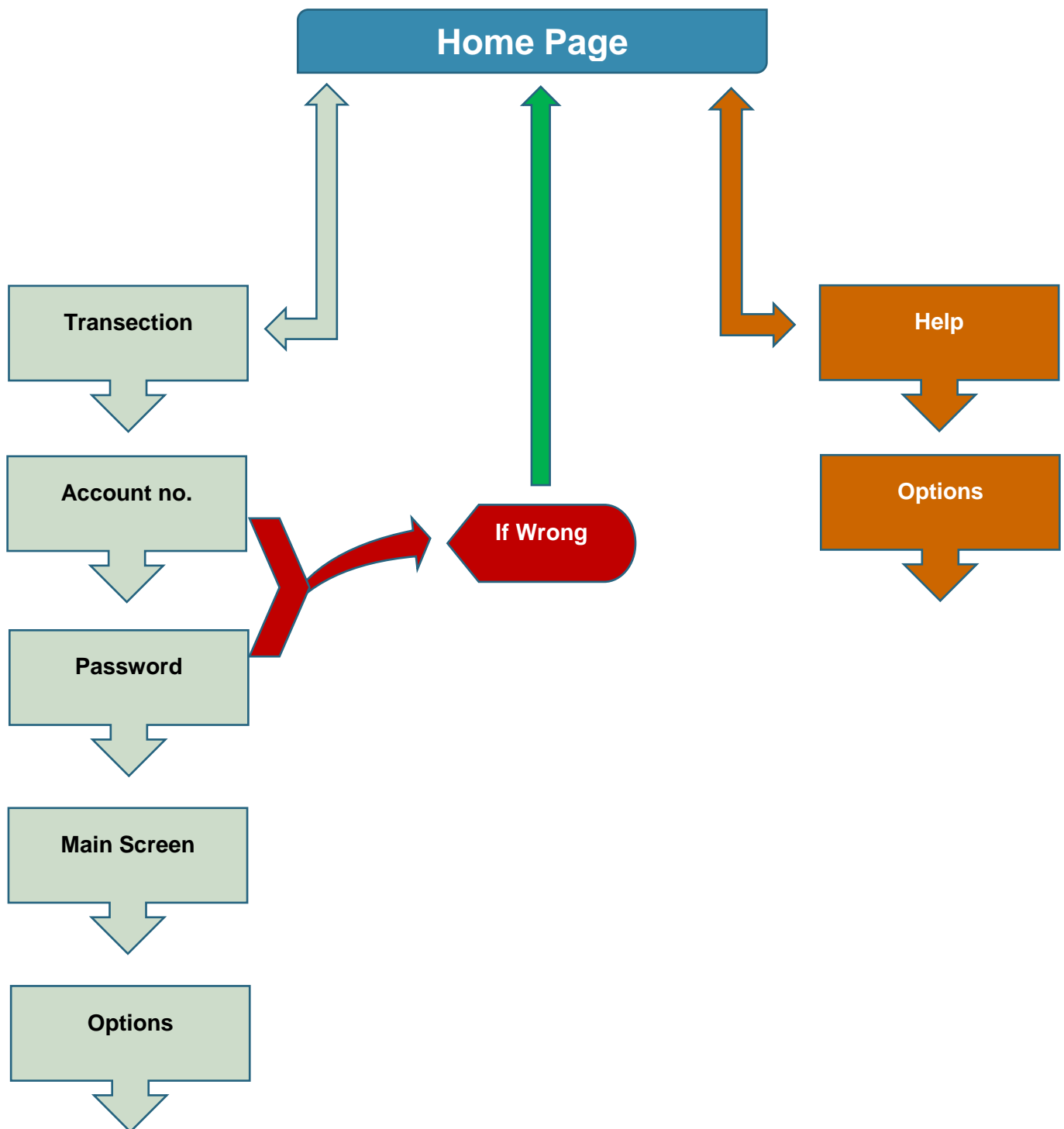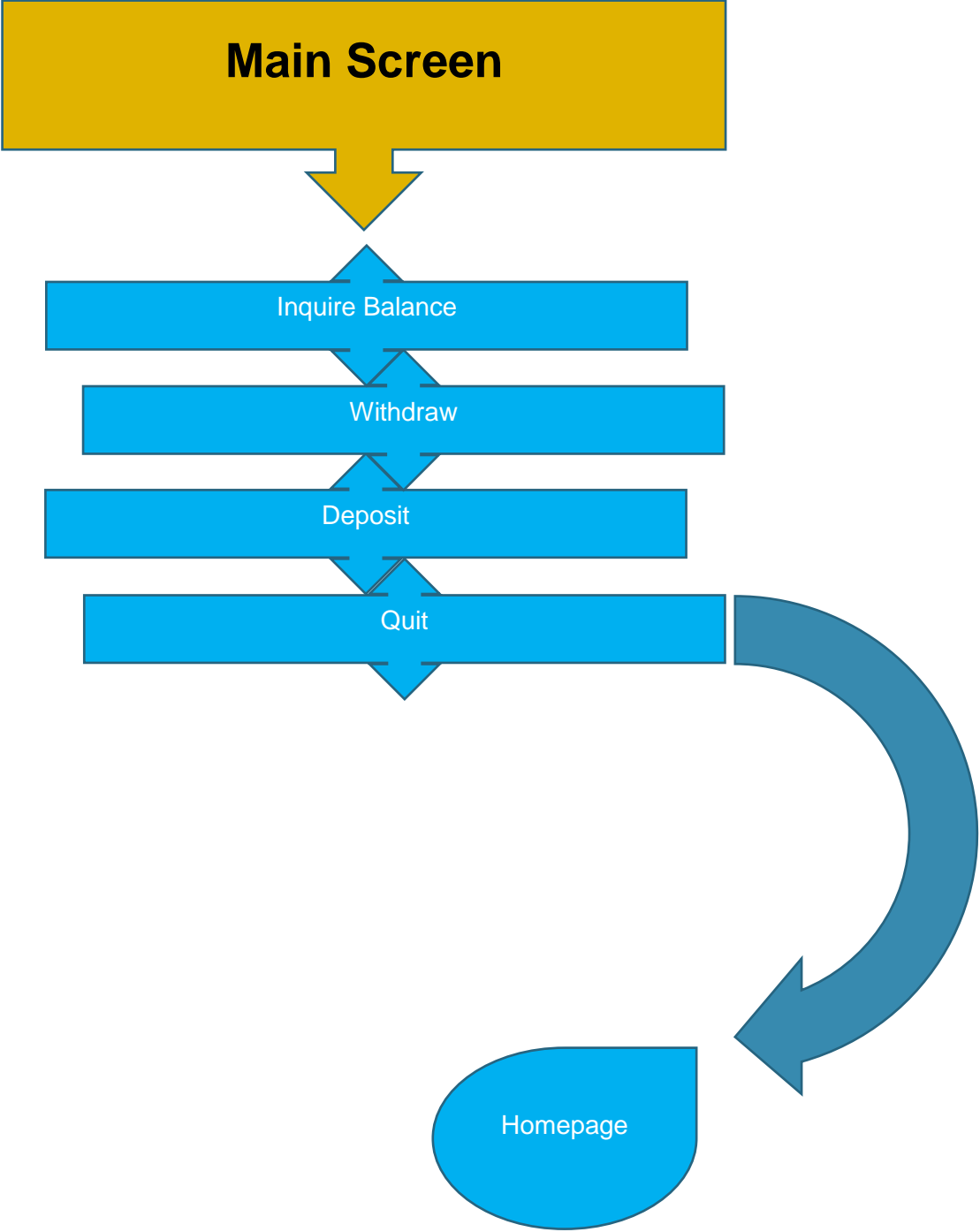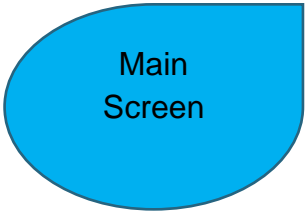
2.3 Software Tool Used

Code Editor - Code Blocks.

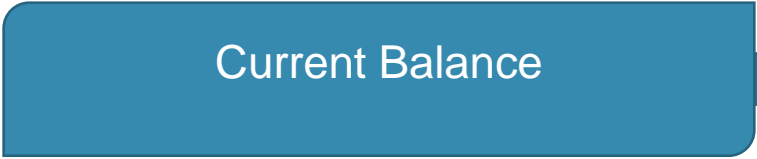Programming language - C++.

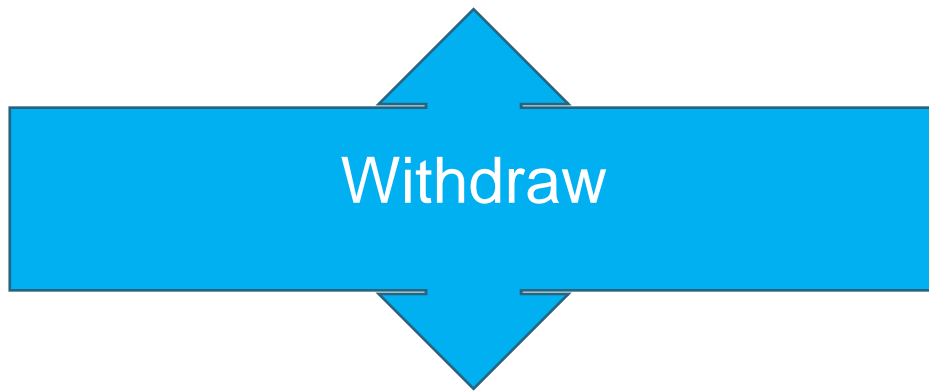Compiler - GCC compiler 6.3.0

Software Design:

Home Page

Transection

Account no.

Password

If Wrong

Main Screen

Options

Help

Options

Main Screen

Inquire Balance

Withdraw

Deposit

Quit

Homepage

Inquire Balance

Current Balance
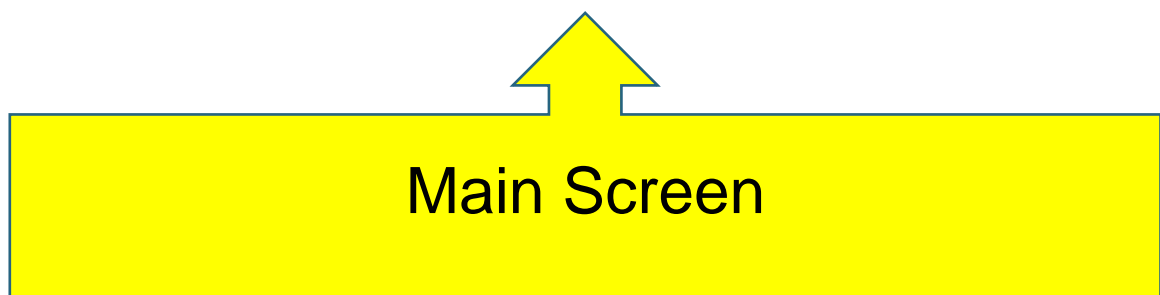
Main
Screen

Withdraw

Amount for withdraw

Withdrawal Balance

Remaining Balance

Main Screen

Deposite

Amount

Deposited Balance

New Balance

Flow Chart:

Home Page

Transection

Account no.

Password → If Wrong

Main Screen

Options

- Inquire Balance
- Withdraw
- Deposite
- Quit

Help

Options

Homepage

```
                    WELCOME TO Automated Teller Machine




(1)**Press for Transection**




                                                            Help?(4)

```

Transection

```
                    WELCOME TO Automated Teller Machine




(1)**Press for Transection**




                                                            Help?(4)
1

PLEASE ENTER THE ACCOUNT NO:
```
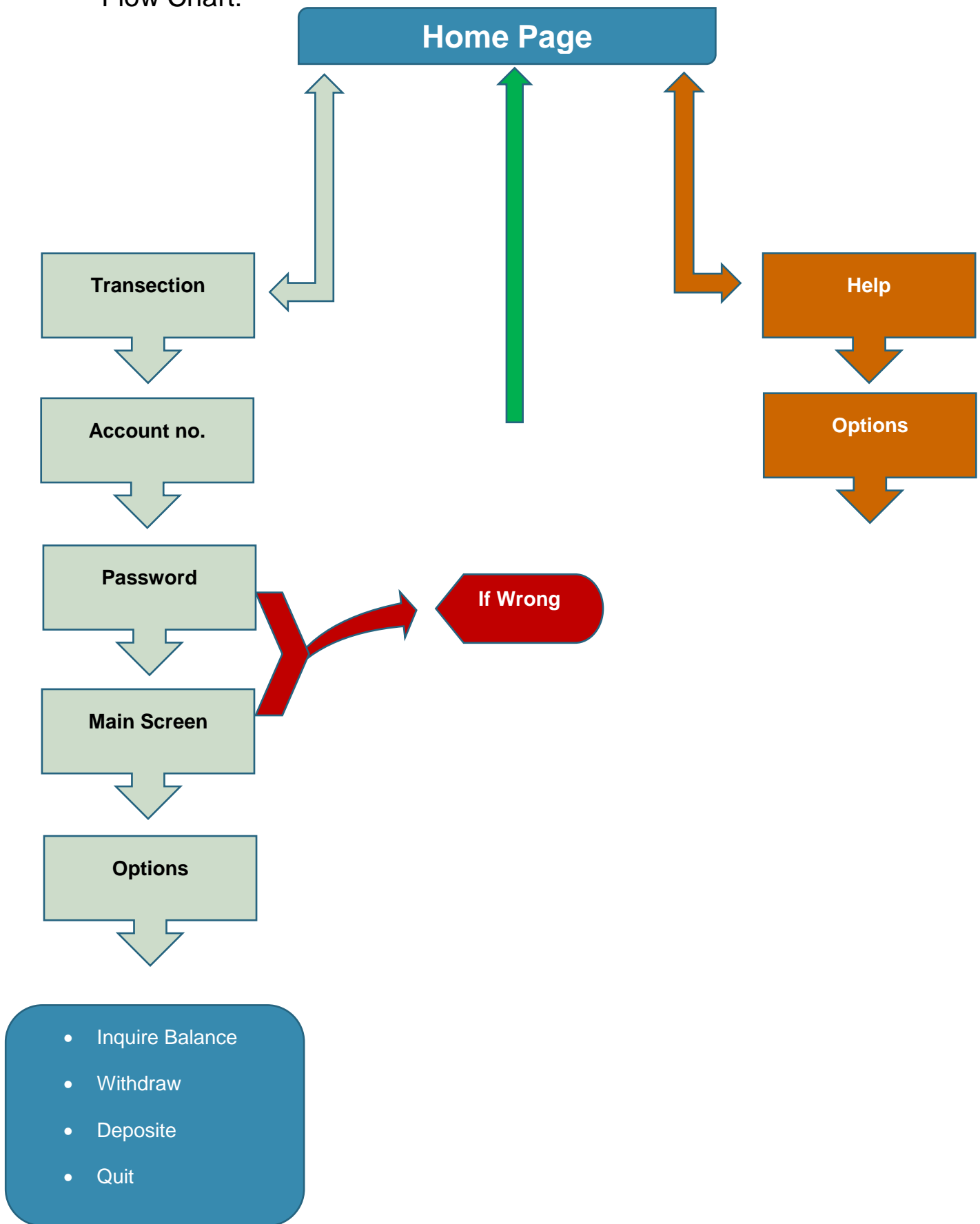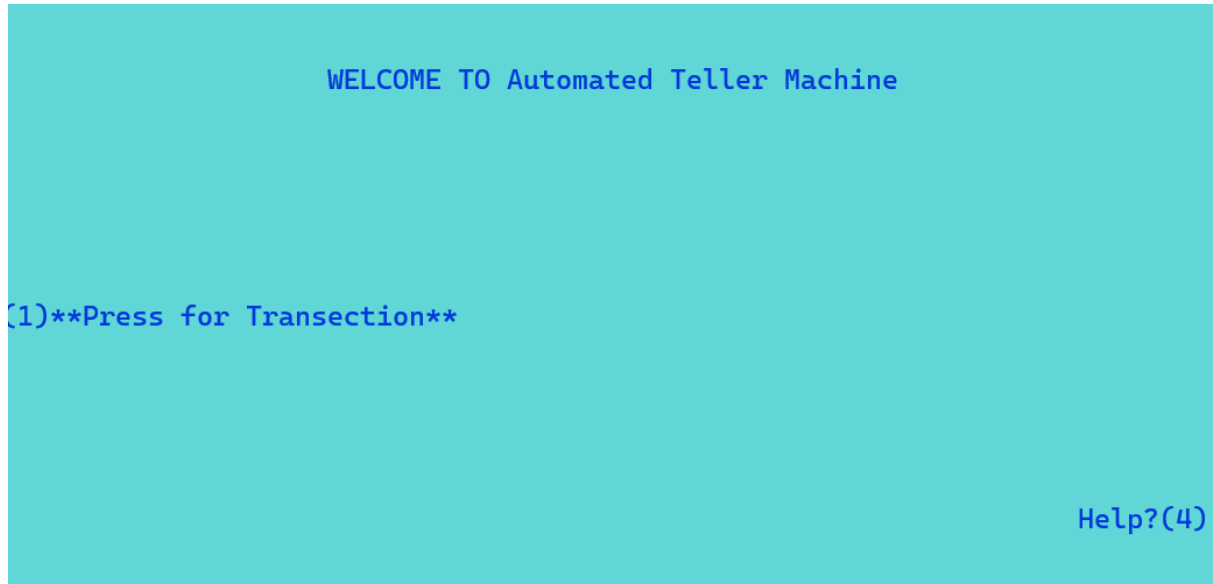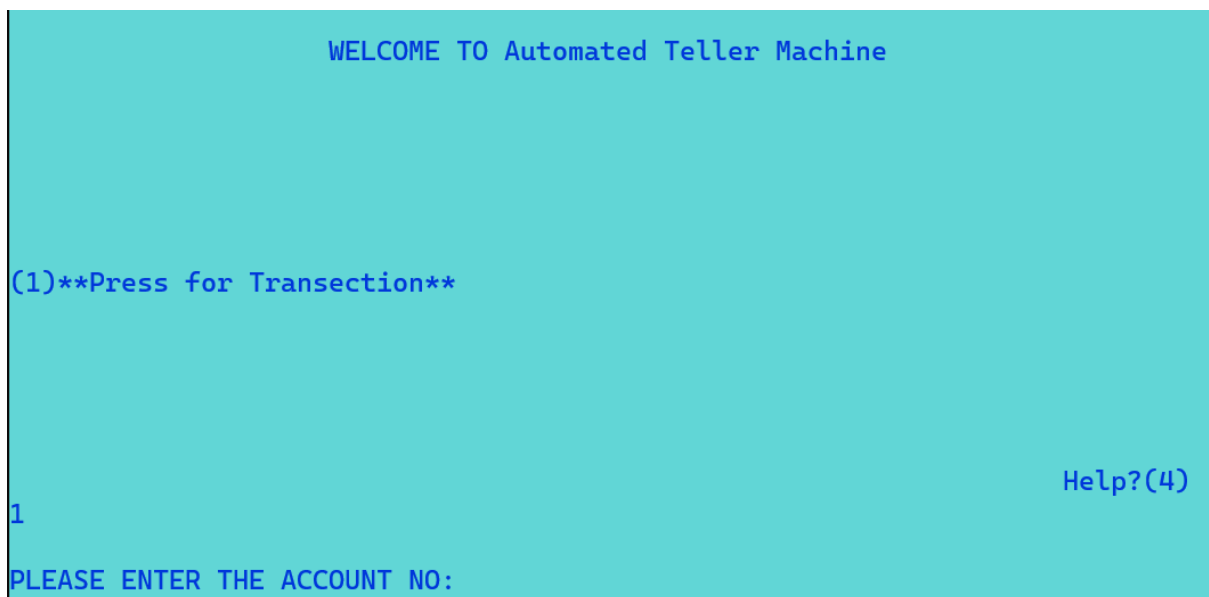
Account Number And Password Entering:

```
PLEASE ENTER THE ACCOUNT NO:
21222203050

                    WELCOME Rohan Rashid
Please Enter Password:
****
```

Main Screen

```
Choose A Transaction:

     MAIN SCREEN

[1] Inquire Balance
[2] Withdraw
[3] Deposit
[4] Quit

Enter Option:
```

Inquire Balance

```
Choose A Transaction:

     MAIN SCREEN

[1] Inquire Balance
[2] Withdraw
[3] Deposit
[4] Quit

Enter Option:1

* BALANCE INQUIRY *

              Your Current Balance Is TAKA: 75000
```

Withdraw

```
Choose A Transaction:

     MAIN SCREEN

[1] Inquire Balance
[2] Withdraw
[3] Deposit
[4] Quit

Enter Option:2
* WITHDRAW *
Enter amount in TAKA: 500
                        You Successfully Withdrew TAKA: 500
                        Your Remaining Balance Is TAKA: 74500
```

Deposit

```
Choose A Transaction:

     MAIN SCREEN

[1] Inquire Balance
[2] Withdraw
[3] Deposit
[4] Quit

Enter Option:3

* DEPOSIT *
Enter Amount In TAKA: 500
                        You deposited TAKA: 500
                        Your New Balance Is TAKA: 75000
```

Quit to Main Menu

No Account Found on This Number
Please Enter A Valid Account Number.

                    WELCOME TO Automated Teller Machine

(1)**Press for Transection**

                                                      Help?(4)

HELP

                                              Help?(4)
4

 1.It shows my password is wrong.

 2.I think my account has been hacked.

 3.The money has been deducted from my account but the machine has not given the money yet.

 4.For more information Please contact with us:

Option 1

1

If your password is showing wrong then please recheck the password and enter it again correctly. Please note that entering the password more than 3 times may invalidate your card. If the password is incorrect even after entering it correctly, please contact the nearest branch, thank you.

Option 2

```
2

How to understand that the account has been hacked?

2.  If you don't have the desired amount in the account.

3.  If you notice any changes in the account.

Tips :  Of course, for the security of your account, never share your PIN, password, or sensitive account information.
```

Option 3

```
.. or more information Please contact with us.
3

We are very sorry for your trouble.It may be due to a system error. Please contact our branch as soon as possible.Before
 contacting, please keep the necessary documents and your mobile message along with your account information.Thank you.
```

Option 4

```
4

Mail- services.helpmenu@atm.com or Call - 132850
```

Chapter : 4

Conclusion

Conclusion & Future Work:

In this project, the objective concerned only to improvise a method where customer can perform an ATM loss card report through the ATM machine. The Automated Teller Machine Reporting system application is to help the user who has problems reporting the loss of ATM card. The implementation will ensure that the system can bring benefits especially to the customers in this evolving era of technologies. This project has introduced a new prototype for ATM reporting system and make the ATM machine usable and acceptable. In this system, there are more objectives that could possibly be implemented in future work such as implementing a higher level of security to avoid customers from being scam or fall into the phishing Trap.