

A project report
on
Banking Management System

Submitted in partial fulfillment of the requirement of
Project – II (BIT179C0)

of
Bachelor of Information Technology (BIT)

Submitted To



Purbanchal University
Biratnagar, Nepal

Submitted By

Nima Dawa Sherpa	Symbol no. 325011
Subash Pandey	Symbol no. 325024
Laxman Basnet	Symbol no.325007

KANTIPUR CITY COLLEGE

Putalisadak, Kathmandu

August 14, 2021

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Project Supervisor
Ashim KC

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Topic Approval Sheet

This is to certify that this project report entitled “**Banking Management System**” made by “**Nima Dawa Sherpa, Subash Pandey and Laxman Basnet**” of Bachelor of Information Technology, 2nd semester has been found suitable as per the credit given by Kantipur City College and Purbanchal University, Biratnagar Nepal.

MR. Saroj Pandey
Head of Department

Mr. Bikash Neupane
Project Coordinator

Mr. Ashim Kc
Project Supervisor

Certificate from Supervisor

This is to certify that this project report entitled “**Banking Management System**” submitted to **Kantipur City College**, is a bonfire record of work done by “**Nima Dawa Sherpa, Subash Pandey and Laxman Basnet**” under my supervision.

Mr. Ashim KC

Department of Information Technology

Kantipur City College

(Project Supervisor)

Acknowledgement

First, we would like to thank Purbanchal University (PU) and Kantipur City College (KCC) for providing us the opportunity that helped us to know more about C++ Programming and how to make a complete project with using it. We also like to thank Mr. Bikash Neupane for helping for writing program in C++. Not Only that We also like to thank to our Supervisor Mr. Ashim KC for providing necessary information and his guidance regarding this project. This assignment was not possible to complete without the help and guidance of some respected person who deserves our deepest gratitude. In this project making process we play equal responsibility to complete this project in time and also consult with senior students, classmate.


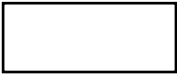

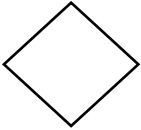




- Nima Dawa Sherpa
-Subash Pandey
- Laxman Basnet

Abstract

Banking management system can be consider as almost important thing in economic world, in the present scenario the banking sector is the common need in everyday life, in day to day life we face the problems and then we realize something is not done in this sector like we want to change the singularity in software platform with marge both higher level and lower level management system in one software. This system can hold the overall information and users are provided the facility of transactions like deposit, withdraw account and see account holder's list, update and can easily close their account. We use different functions in our Systems and also use file handling to recording the user's information. In the future if any new features found or available in that case we provide this facility through the our project i.e. Bank management system

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List of Symbols		
Symbol Number	Name	Description
	Oval	Represents a complete Algorithm Begin/Start and End/Stop.
	Rectangular Shape	The process or actions such as Calculations, Input/Output and Operations.
	Input or Output	The data or Input/output.
	Diamond or Decision	Which indicates that the decision is to be made such as choice between YES or NO.
	Flowlines	Indicates the order in which an operation is performed.
	Small Circle or Connector	When describing a portion of an algorithm continued from or will continue on.
	True Symbol	Indicates the condition is True.
	False Symbol	Indicates the condition is False.

Abbreviations	
Short Form	Full Form
DOB	Date of Birth
KCC	Kantipur City College
PU	Purbanchal University
AD	Anno Domin
BS	Bikram Sambat
RAM	Random Access Memory
ROM	Read Only Memory
OS	Operating System
HDD	Hard Drive Disk
HOD	Head of Department
I/O	Input Output
MB	Mega Byte

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Chapter 1: Introduction

1.1 Project Introduction

The project entitled “Banking management system” is a simple application build in C++ associated with the bank. A user can perform many kinds of management tasks to manage customer bank records like adding a new account, modifying and closing it. Also, users can view all customer accounts, check account balance as well as deposit and withdraw money from accounts. User need not to reach the bank for transactions. Banking Management System is a management application made to fulfill the maximum digital features. This software application made for two kind of user higher level management and lower level management. Where in the software application we mention admin and accountant. In the Modern Age, Banking System has changed and this system is saving time. This system is developed for development of the banking sector. Admin can look accountant’s record after account details of accountant how much they deposit or withdraw amount and also check the balance. User will feel comfortable for using this application.

1.2 Literature Review

This is the era of digitalization. In every field there is possible to implement digital system. We visited two banks (Nic Asia Bank Manmai ju branch, Prime bank Manmai ju branch) near to us and we found that they don’t have a proper banking management system. Specially in digital sector like used software are not user friendly, different level management are not marge so, to deal with this problems we research different website like www.w3school.com, www.codewithc.com, www.projectideas.com, and studied application building process few weeks. In that timed we found a lot of books about C++ programming. We got Dummies for C++ programming and Code with C++ programming which was the best book to gain required knowledge to complete this project. We also used our course book Programming in ANSI C++ too to gain knowledge. We started from beginning to studied those books and note important parts. We implement lot of programming ideas in our project. Like function, file, loop and switch case. We studied about graphics from internet and watched few videos in YouTube. We deal with a lot of

problem at testing and debugging time. We did case studied of errors and found the solution ourselves most of the time or consulted with supervisor and implemented his advised.

1.3 Problem Statement

Most of the software are costly and can't afford by bank. Other software are not bank specific. We have discussed, read books, visit website in order to research different kind of banking management system project for clarification of our problem statement. After analyzing and comparing between our own project and another project, we got vast difference between two systems. Like, our system has made only accessible for Higher level management (admin) and lower level management but that system made the way like only high -evel managers can access CEO, MD, bank president. Our system can run only specific region (means: we developed this only for particular areas not accessible for international purpose). But that system can access everywhere. And we found our system is less costly as compare as others BMS system.

1.4 Objectives

Our main objective of this project is:

- To provide digital platform to make day to day work easy, increase the paper-less transaction and increase the employee performance.
- To marge admin and accountant platform in same software with different login system.

1.5 significances

Some important significances of this project are:

- User can use this software without taking extra training with using our provided user manual.
- This software consumed less storage and RAM to install.
- In this software Admin can control Accountant account and can access day to day transaction.
- In this software Accountant can control account holder's account and modify.

1.6 Features

Some important features of this project are:

- Add account
- Update account details
- Close account
- List all current account
- Check balance
- Withdraw balance
- Deposit balance
- Modify account holder name
- Print transaction slips of amount deposit and withdraw

1.7 Assignment roles and responsibilities of the members

Member's Name	Task Performed
Nima Dawa Sherpa	Documentation, System Designing, Coding and Requirement Gathering
Subash Pandey	Documentation and Requirement Gathering, System Designing
Laxman Basnet	Documentation and Requirement Gathering, System Designing

1.8 Documentation Organization

We organize our documentation as below table:

Chapter 1	<u>This chapter consists of Introduction which are divided into various parts:</u> 1.1 Project Introduction 1.2 Literature Review 1.3 Problem Statement 1.4 Objectives of the Project 1.5 Significance of the Project 1.6 Features of the project 1.7 Assignment of Rules and responsibility 1.8 Documentation Organization
Chapter 2	<u>This chapter is about system analysis which is divided into some parts:</u> 2.1 Requirement Gathering Process 2.2 Feasibility Study 2.3 Gantt Chart
Chapter 3	<u>This Chapter is about system design which are divided such as:</u> 3.1 Functional Analysis 3.2 Algorithm of the program 3.3 Flowchart of the Program
Chapter 4	<u>This Chapter is about System Development and implementation of the project consisting of:</u> 4.1 Programming Platform 4.2 Test Plan 4.3 Implementation and result analysis
Chapter 5	<u>This Chapter is about Conclusions and Future Enhancement:</u> 5.1 Conclusion 5.2 Limitations 5.3 Future Enhancement

1.8 Hardware and Software Required

Hardware Required	Software Required
1. RAM min 500 MB required	1. It supports in all kinds of OS platform which need to be install C++ compiler and IDE.
2. HDD 300 MB space required	
3. All Latest series CPU can process.	

(Note: The above hardware and software requirement information can be different on its update version. The given hardware requirement is needed in installation time the hardware requirement needed more after using it or update data.)

Chapter 2: System Analysis

2.1 Requirement Gathering Process

For the project we needed few things which we managed to gather it all up. Thanks to our group which made it possible to conduct the project efficiently. The below mentioned are the requirements, its description, gathering process and with its functions.

Requirement no.	Requirement name	Requirement description	Process of gathering	Function no.
1.	Turbo c++	It's a compiler, which will compile our program and make it able to run into any computer that fits its basic running...	We downloaded it from the internet.	first
2.	Information	How this project work and complete.	Searching internet consulting with Team members.	second
3.	Source code	Control and command the application in C++ programming.	We use our knowledge most of the time and we also search website.	third
4.	Output	How to display and how its looks like.	We used Google. And couple of books, and our own knowledge.	fourth

2.2 Feasibility study

Feasibility tried to determine whether a given project (solution) would work or not, its main objectives is not solved the problem, but to acquire its scope.it focuses on following factors:

- Meet user requirement (operational factors both management and user satisfaction)
- Best utilization of available resources.
- Develop a cost-effective system (economically)
- Develop a technically feasible system.
- These above factors are the main factor that involve during developing a banking management system.

2.3 Gantt Chart

SN	Week Strategy	1 st week (2021-05-15)	2 nd week	3 rd week	4 th week	5 th week	6 th week
1.	Problem Identification						
2.	Research and analysis						
3.	Design						
4.	Coding						
5.	Implementation and testing						
6.	Documentation						
7.	Project Finalization						

Chapter 3: System Design

3.1 Function Analysis

Function Number	Function Name	Function Description
1.	int main()	This function work to start program with return values.
2.	Class MANAGER() class ACCOUNTENT() AND class BMS()	This class helps to denote separated function of this class.
3.	void main()	This function work to start program but do not return values.
4.	getch()	This function work to get data of program.
5.	set color()	This function work to set color of fonts.
6.	system("cls")	It clears the current text window and place the cursor in the upper left-hand corner
7.	cout <<	This function work to print statement to show in screen.
8.	cin >>	This function work to get input form user.
9.	Manager_option() and Accountent_Option()	This function helps to go back to main menu.
10.	welcome() and closed()	This function work to display welcome screen and close screen.

3.2 Algorithm

Step 1: Start

Step 2: Display Banking Management System

Step 3: Enter Choice from Login Menu

Step 4: If User Choice is 1 to 3,

If user Choice is 1, enter username and password for admin

 Then Display “Login Successful”

 Display Admin Option

 Enter the Option from 1 to 8

If user choice is 1 to 8,

If user choice is 1, then display transaction details

 After that, enter the option from 1 to 3

If user choice is 1, display “Deposit Details”

 Press any key to return transaction menu

Else if user choice is 2, display “Withdraw Details”

 Press any key to return transaction menu

Else if user choice is 3, display “Withdraw Details”

 Display Admin Option

Else if user choice is 2, then display “account Holders List”

 Press any Key to Return Admin Menu

Else if user choice is 3, then display “accountant list”

 Press any Key to Return Admin Menu

Else if user choice is 4, then show page for entering Accountant id

 Display “Account Details”

Else if user choice is 5, then create new accountant id

 After That “Display data save in file”

 Display “create new accountant id” and

If User Press y or Y, again display “create new id page”

Else Display “Press any key to return to main menu”

Else if user choice is 6, then “display accountant id to update Account”

Enter the Id of old account

Then display “do you want to delete accountant data”

Enter y for yes and n for no

If user choice is y or Y, then enter new account data to update

And Display “Accountant data updated successfully”

Else new Account Data is Not Updated and

Then Display Press any key to return to main menu

Else if user choice is 7, then display “accountant id to delete Account”

Enter id of accountant and Display “press y or Y for Y or n or N For No”

Enter y or Y OR n or N

If user choice is y or Y, display “accountant data deleted”

Successfully and press any key to return admin menu

Else display “accountant Data is not deleted” and press

Any key to return main menu

Else if user choice is 8, then Display “Return Login Menu, Please Wait”

Else Display “Please Select Option from 1 to 8”

Else if user choice is 2, Display “Accountant Login Option” for accountant

Enter Username and password and then Display “Login Successful”

After that show Accountant menu and Display Select Option From 1 to 8

If user choice is 1 to 8,

If user choice is 1, then display “create account”

Enter account details to create account

Then Display “Account Created Successfully”

Show Press y or Y to create another account and n or N to

return accountant menu

If user choice is y or Y, then again display “enter details to
Create account

Else Press any key to return accountant Menu

Else if user choice is 2, then display “Deposit Amount”

Display “Account Details”

Press y or Y to deposit amount and n or N to return to accountant
Menu

If user choice is y or Y

Enter Amount to be deposited

Display “Amount Deposited Successfully”

Enter any key to return accountant menu

Display “Amount Deposit Slip”

Else Display “Amount is not deposited”

Enter any Key to return accountant menu

Else if user choice is 3, then display “Withdraw Amount”

Display “Account Details”

Press y or Y to withdraw amount and n or N to return to
Accountant Menu

If user choice is y or Y

Enter Amount to be withdrawn

Display “Amount Withdrawn Successfully”

Enter any key to return Accountant menu

Display “Amount Withdraw Slip”

Else Display “Amount is not withdraw”

Enter any Key to return accountant menu

Else If user choice is 4 , then display “account Holders List”

Press any Key to Return Accountant Menu

Else if user choice is 5, then enter accountant id to search

Display “Accountant Details”

Press any Key to Return Accountant Menu

Else if user choice is 6, then display “accountant id to update account”

Enter the Id of old account

Then display “do you want to delete accountant data”

Enter y for yes and n for no

If user choice is y or Y, then enter new account data to update

And Display “Accountant data updated successfully”

Then Press any key to return to Accountant menu

Else Display “new Account Data is Not Updated” and

Then y Press any key to return to Accountant menu

Else if user choice is 7, then display accountant id to close account

Enter id of accountant and Display “press y or Y for Y or n or N
For No”

Enter y or Y OR n or N

If user choice is y or Y, display “accountant data closed”

Successfully and press any key to return admin menu

Else display accountant “Data is not closed” and

Press any key to return Accountant menu

Else if user choice is 8, then Display “Return Login Menu”, Please
wait

Else Display “Please Select Option from 1 to 8”

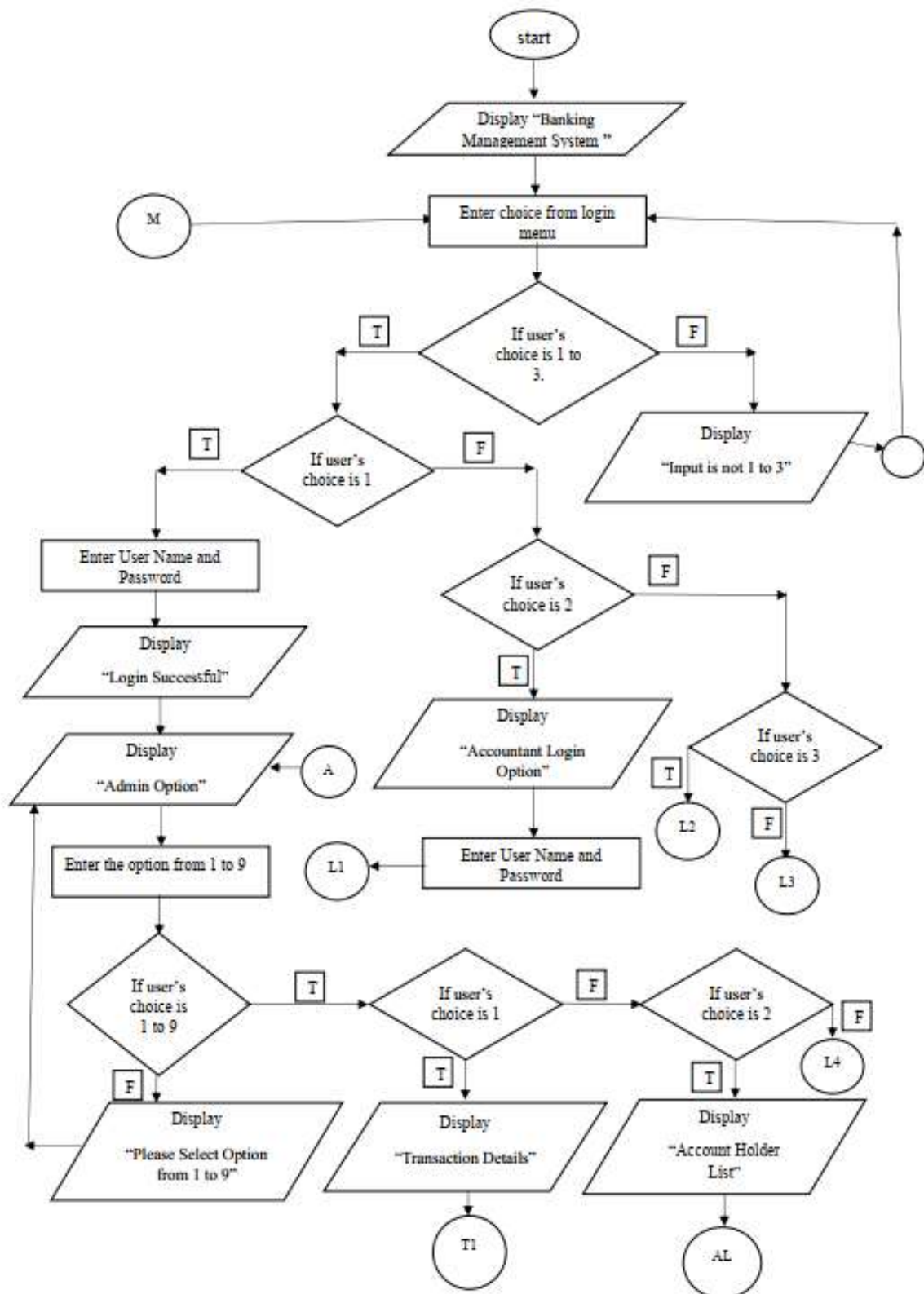
Else

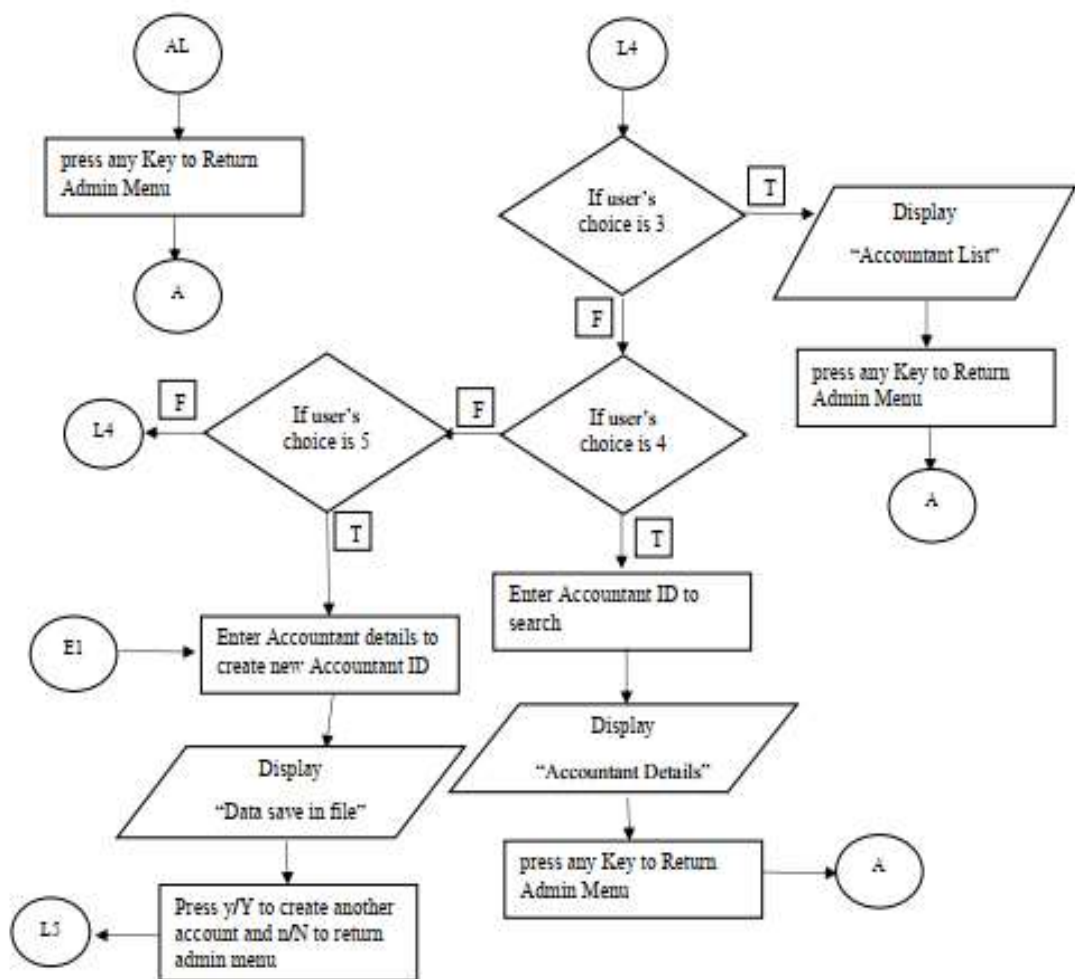
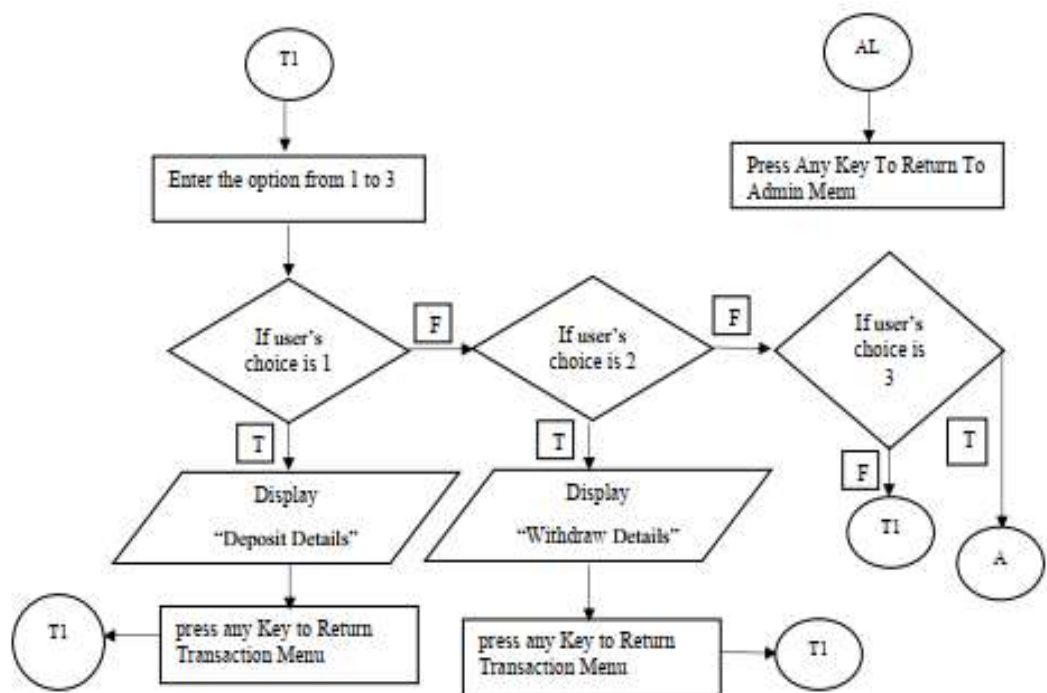
If user choice is 3, Display “Thanks For Using Our System”

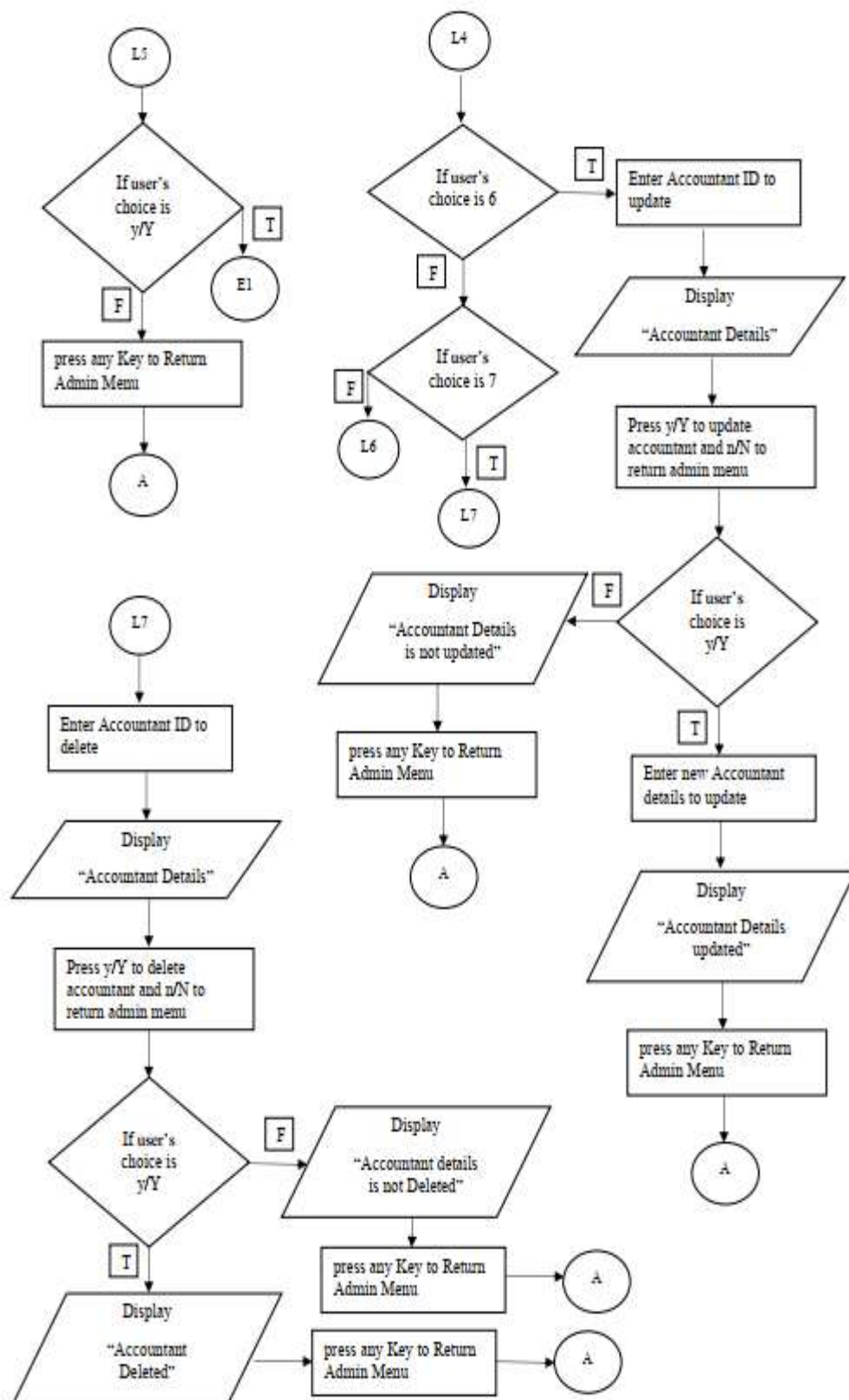
Else Display “Enter Numbers from 1 to 3”

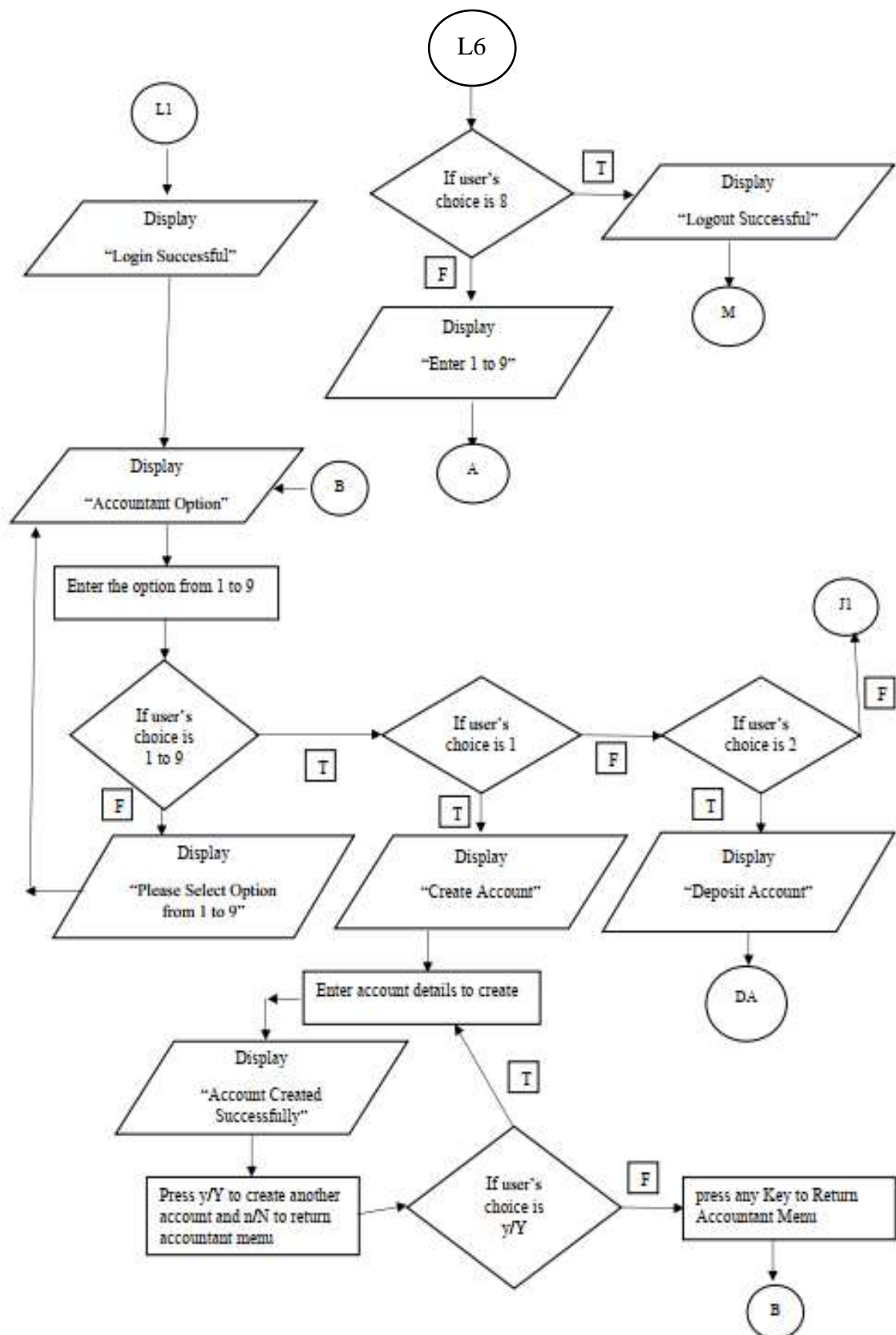
Step 5.Exit

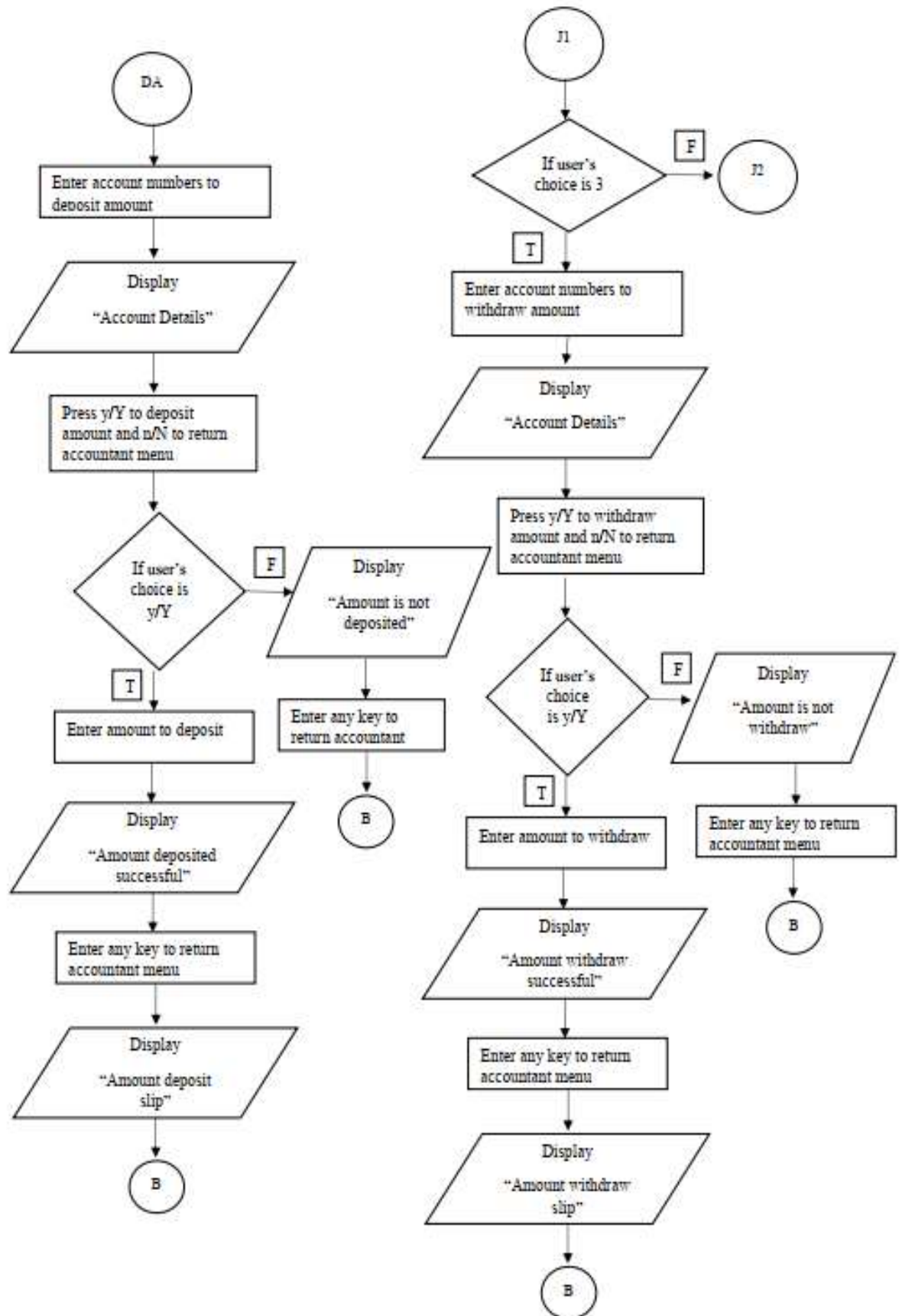
3.3 Flowchart

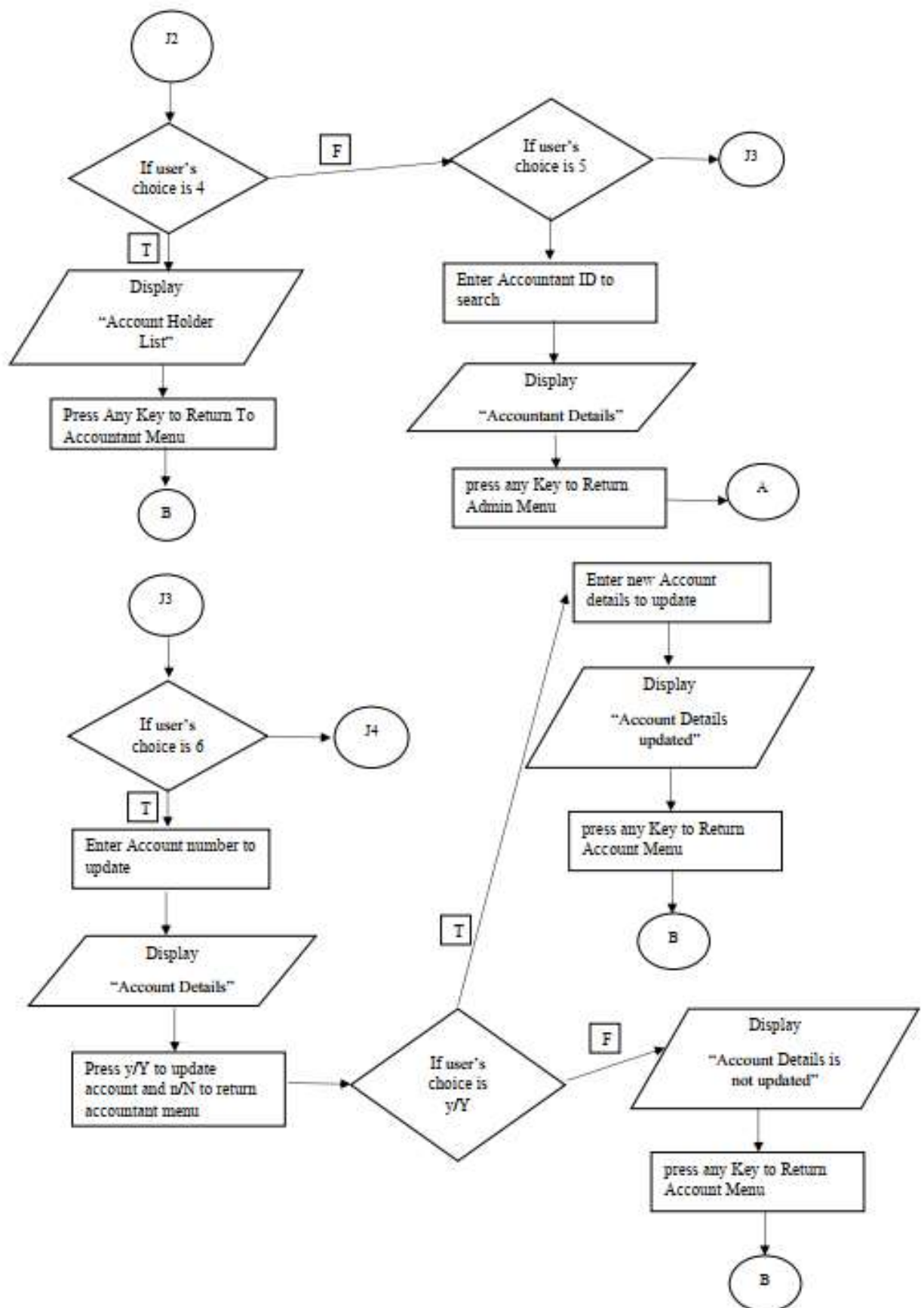


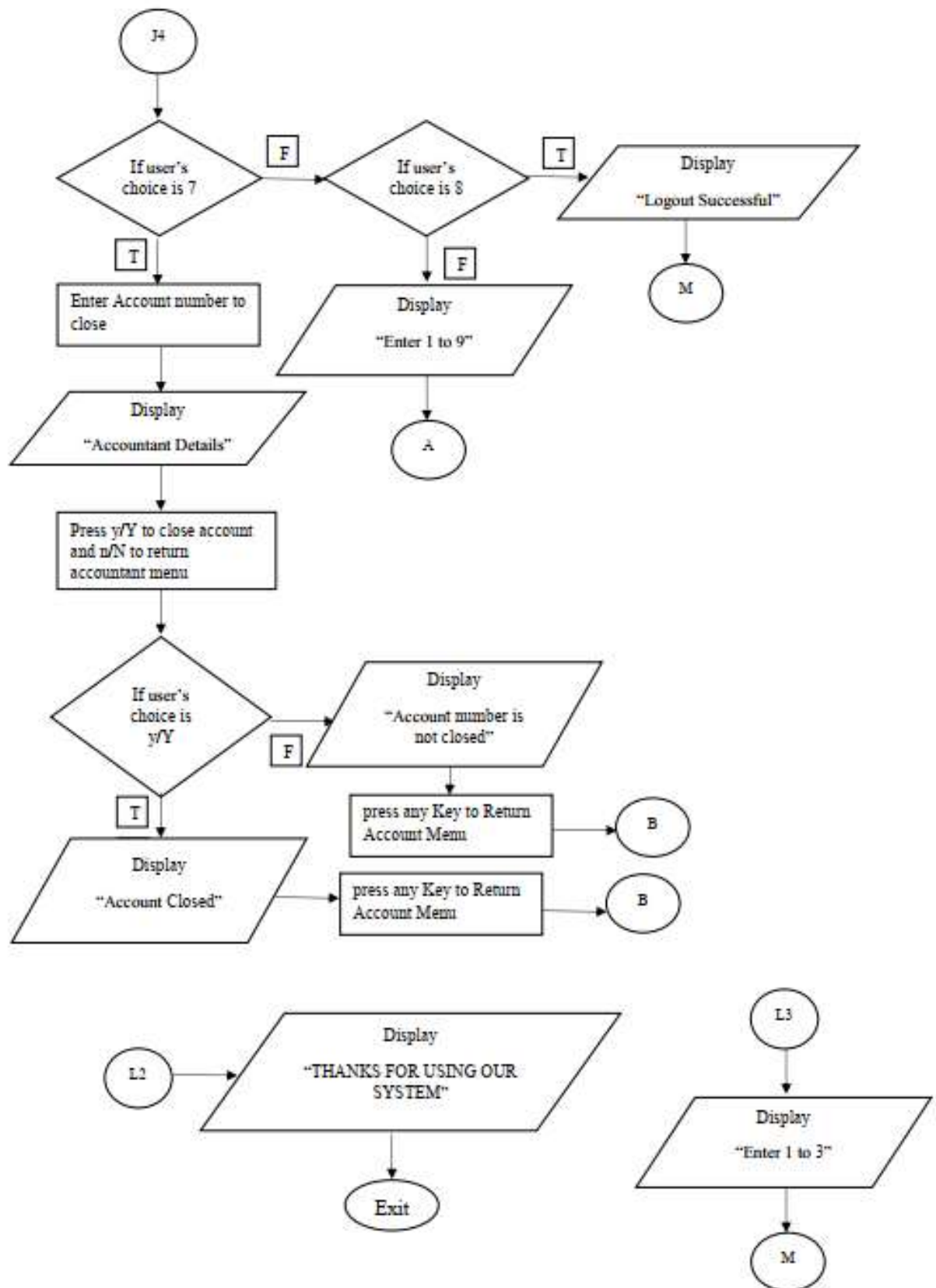












Chapter 4: System Development and Implementation

4.1 Programming platform, (Tools & technologies used)

For the programming we use notepad++ for code editing, Code block and Turbo C++ for compiler and code editing.

4.2 Operating environment

The following program is created in 64-bit windows 10 operating system with 8GB storage of processor Intel core i5 9th generation with CPU 2.40 GHZ.

4.3 Testing and Debugging

Apart from the programs there were some errors in the program like user may enter the date, month, year but the compiler does not give correct output for this program and similar problems occurred in other codes creating troubles while programming and the errors while execution was found after debugging. Many coding parts were not correct and was problems in graphics part too.

4.4 Implementation and Result Analysis

Our team members found the errors and bugs such as the functions were not declared in some Parts, semi colon was missing and many more errors were detected. These errors were get fixed after the discussion between the members and take long time to fix the bugs and errors in the program.

Chapter 5: Conclusion and Further Enhancement

5.1 Conclusion

We finally conclude that using this project we can provide a great interface between the user and the banking environment, thus satisfying the requirements of multiple users. Users can see account holder list, with draw, deposited amount, can also modify their account. so, It provides an efficient way for people to involve in on-line transactions. We are providing a monitoring mechanism for admin which is having the ultimate power. And finally, the users will be satisfied with our service.

5.2 Limitations

This Application has some limitations or drawbacks, which are listed below:

As we know that no any program can be 100% reliable and efficient. so there are some drawbacks from our system which are as follows:

- Only current account can create, other account types features are not available.
- Only Admin can create new Accountant ID and Only Accountant can create, modify, transact amount and close Account.
- Interest rate features is not available.
- Balance cannot transfer without withdraw and deposit.

5.3 Future Enhancement

The Future enhancements of this program are as follows:

- Number of account types can be added. Like fixed deposit, saving account, insurance etc.
- Forgot password, username function can be added with implement OTP system.
- This software can made in other different language like python, java, .Net etc. to implement which features is limited in C++ language.
- In the futures if any new facilities came in banking system can be implemented and linked.

References

- [1] E. Balagurusamy, 2015. Object Oriented Programming with C++, 6th Edition. Published by Tata McGraw Hill Education Private Limited, 7 West Patel Nagar, New Delhi 110 008, studied on 2021-02-12.

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- [3] Website: www.codewithc.com . Visited on 2021-02-12.

- [4] Website: www.w3school.com . Visited on 2021-02-16.

- [5] Website: [www.code with C.com](http://www.codewithc.com), www.projectideas.com . Visited on 2021-02-25.

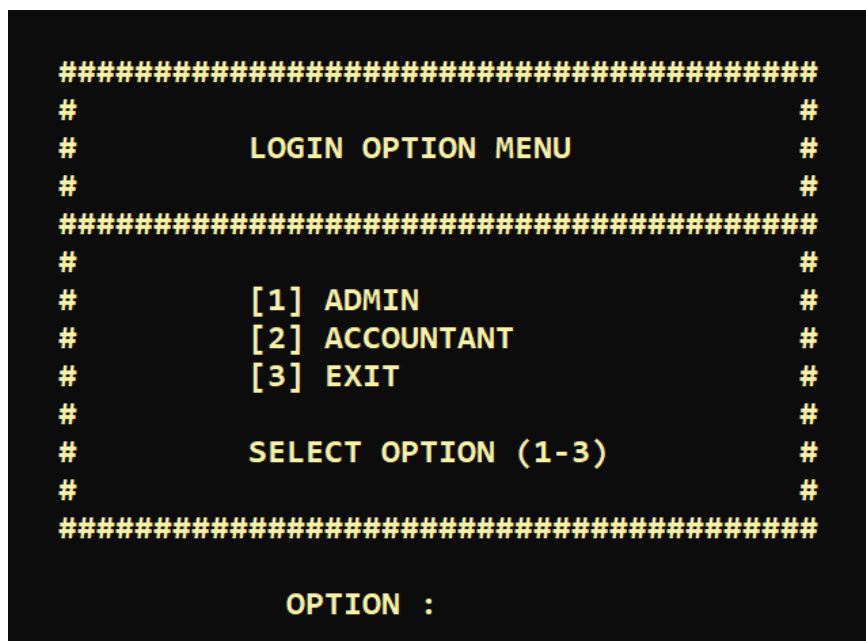
Appendix

Appendix-1 (Output Screenshots)

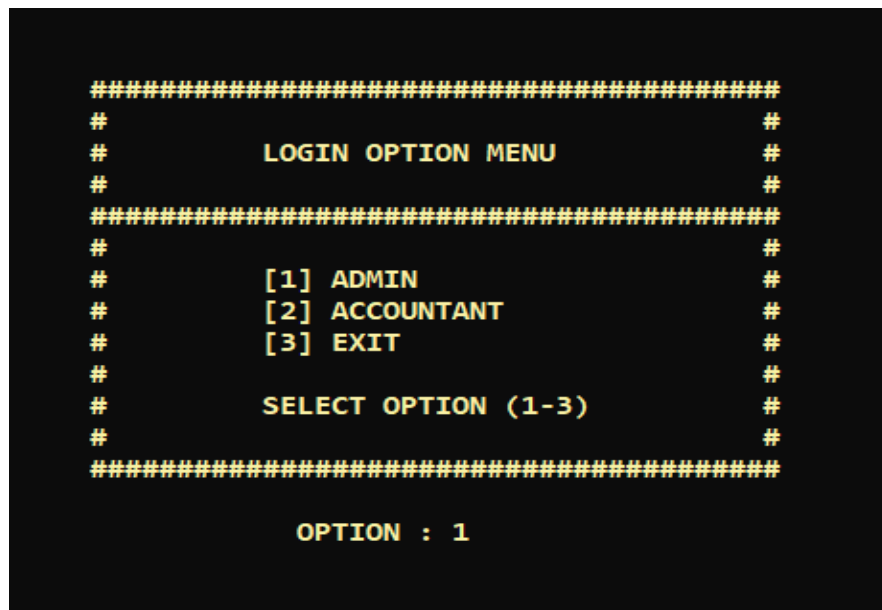
First Screenshot



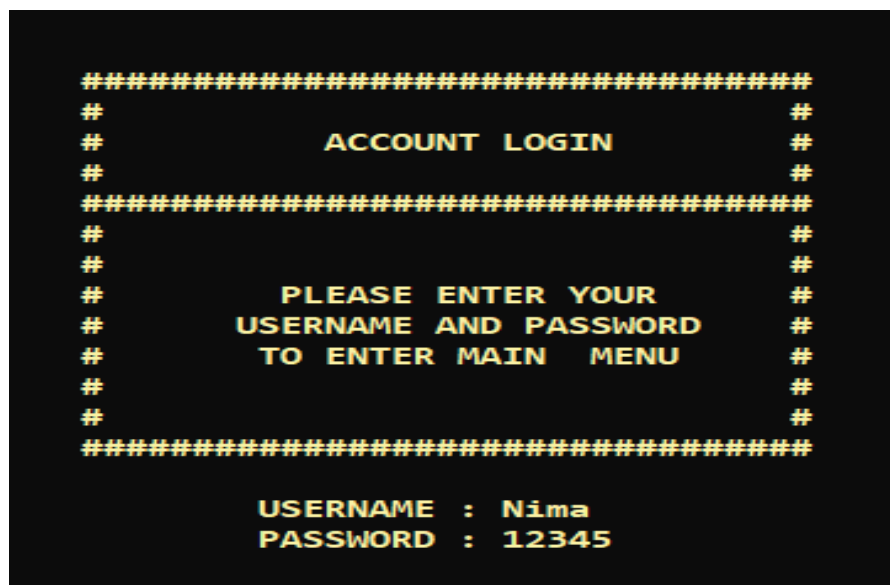
Second Screenshot



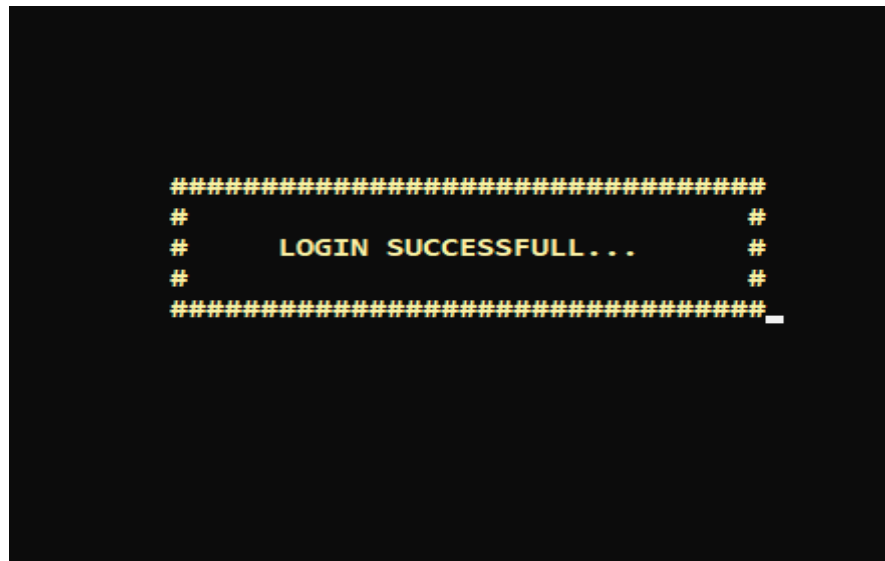
Third Screenshot



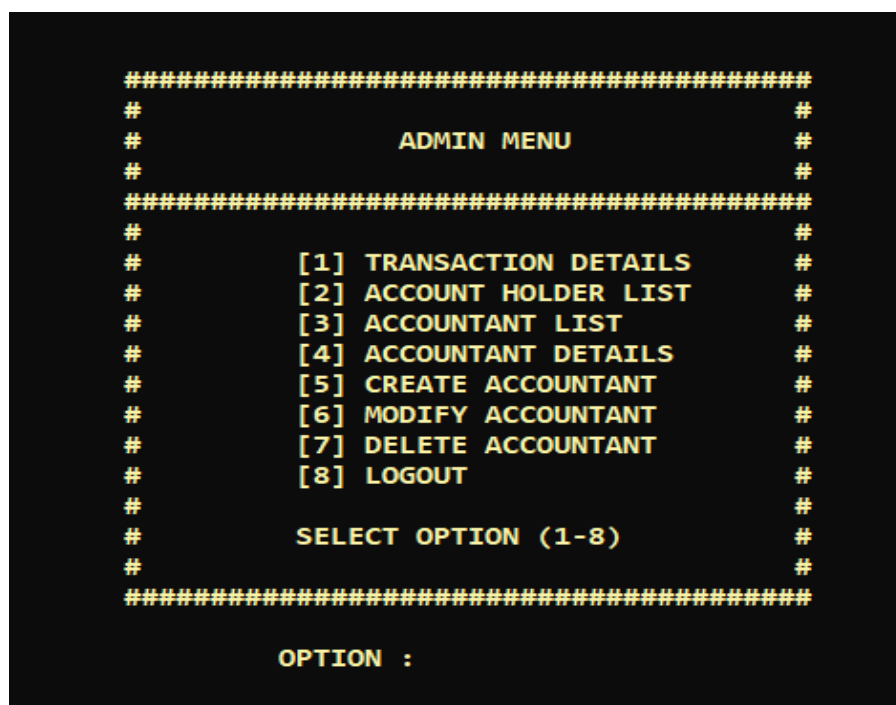
Fourth Screenshot



Fifth Screenshot



Sixth Screenshot



Appendix-2 (User Manual)

This user manual helps user to use our Banking Management application in easy way.

Step 1: Goto the location C drive and select Banking Management System Folder and open it and there you will see the c++ source file.

Step 2: Open the application either in Codeblock or dev c++.

Step 3: After successfully Opened Click the run option given in the compiler to run program.

Step 4: after run the program you will see this screen.



Step 5: Enter Any Key to goto login menu which looks like this

```
#####
#
#          LOGIN OPTION MENU          #
#
#####
#
#      [1] ADMIN                      #
#      [2] ACCOUNTANT                #
#      [3] EXIT                      #
#
#      SELECT OPTION (1-3)           #
#
#####

      OPTION :
```

Step 6: if you select 1 you will see this screen.

```
#####
#
#          ACCOUNT LOGIN              #
#
#####
#
#      PLEASE ENTER YOUR              #
#      USERNAME AND PASSWORD          #
#      TO ENTER MAIN MENU            #
#
#
#####

      USERNAME :
```


Step 7: After Successfully Login you will see this screen.

```
#####  
#                                     #  
#               MAIN MENU             #  
#                                     #  
#####  
#                                     #  
#      [1] TRANSACTION DETAILS        #  
#      [2] ACCOUNT HOLDER LIST        #  
#      [3] ACCOUNTANT LIST            #  
#      [4] ACCOUNTANT DETAILS         #  
#      [5] CREATE ACCOUNTANT          #  
#      [6] MODIFY ACCOUNTANT          #  
#      [7] DELETE ACCOUNTANT          #  
#      [8] LOGOUT                     #  
#                                     #  
#      SELECT OPTION (1-8)            #  
#                                     #  
#####
```

Step 8: if you select 1 then you will see this screen.

```
#####  
#                                     #  
#      LOGIN OPTION MENU              #  
#                                     #  
#####  
#                                     #  
#      [1] DEPOSIT DETAILS            #  
#      [2] WITHDRAW DETAILS           #  
#      [3] BACK                       #  
#                                     #  
#      SELECT OPTION (1-3)            #  
#                                     #  
#####  
  
#                                     #  
#      OPTION :                       #  
#                                     #  
#####
```

Step 9: if you select 1 then deposit details is shown

```
#####  
#  
#          DEPOSIT DETAILS          #  
#  
#####  
#  
#          ACCOUNT NUMBER IS : 0  
#          FULL NAME IS : Nima Dawa Sherpa  
#          DEPOSIT DATE IS : 2021/7/20  
#          DEPOSIT TIME IS : 19:36:20  
#          BEFORE DEPOSIT BALANCE IS : 5500  
#          DEPOSIT AMOUNT IS : 500  
#          CURRENT BALANCE IS : 6000  
#  
#####  
#  
#          ACCOUNT NUMBER IS : 0  
#          FULL NAME IS : Nima Dawa Sherpa  
#          DEPOSIT DATE IS : 2021/7/20  
#          DEPOSIT TIME IS : 19:40:42  
#          BEFORE DEPOSIT BALANCE IS : 5500  
#          DEPOSIT AMOUNT IS : 500  
#          CURRENT BALANCE IS : 6000  
#  
#####  
#  
#          ACCOUNT NUMBER IS : 1  
#          FULL NAME IS : Subash Pandey  
#          DEPOSIT DATE IS : 2021/7/20  
#          DEPOSIT TIME IS : 19:40:55  
#          BEFORE DEPOSIT BALANCE IS : 5003  
#          DEPOSIT AMOUNT IS : 497  
#          CURRENT BALANCE IS : 5500  
#  
#####  
#  
#          ACCOUNT NUMBER IS : 1  
#          FULL NAME IS : Subash Pandey  
#          DEPOSIT DATE IS : 2021/7/20  
#          DEPOSIT TIME IS : 22:25:25  
#          BEFORE DEPOSIT BALANCE IS : 5000  
#          DEPOSIT AMOUNT IS : 7000  
#          CURRENT BALANCE IS : 12000  
#  
#####  
#  
#          ACCOUNT NUMBER IS : 1  
#          FULL NAME IS : Subash Pandey  
#          DEPOSIT DATE IS : 2021/7/20  
#          DEPOSIT TIME IS : 22:34:46  
#          BEFORE DEPOSIT BALANCE IS : 11000  
#          DEPOSIT AMOUNT IS : 400  
#          CURRENT BALANCE IS : 11400  
#
```

Step 10: if you select 2 then withdraw details is shown

```
#####  
#                                     #  
#               WITHDRAW DETAILS           #  
#                                     #  
#####  
#  
#         ACCOUNT NUMBER IS : 0  
#         FULL NAME IS : Nima Dawa Sherpa  
#         WITHDRAW DATE IS : 2021/7/20  
#         WITHDRAW TIME IS : 10:36:42  
#         BEFORE WITHDRAW BALANCE IS : 6000  
#         WITHDRAW AMOUNT IS : 500  
#         CURRENT BALANCE IS : 5500  
#  
#####  
#  
#         ACCOUNT NUMBER IS : 1  
#         FULL NAME IS : Subash Pandey  
#         WITHDRAW DATE IS : 2021/7/20  
#         WITHDRAW TIME IS : 19:41:11  
#         BEFORE WITHDRAW BALANCE IS : 5500  
#         WITHDRAW AMOUNT IS : 500  
#         CURRENT BALANCE IS : 5000  
#  
#####  
#  
#         ACCOUNT NUMBER IS : 1  
#         FULL NAME IS : Subash Pandey  
#         WITHDRAW DATE IS : 2021/7/20  
#         WITHDRAW TIME IS : 22:28:15  
#         BEFORE WITHDRAW BALANCE IS : 12000  
#         WITHDRAW AMOUNT IS : 500  
#         CURRENT BALANCE IS : 11500  
#  
#####  
#  
#         ACCOUNT NUMBER IS : 1  
#         FULL NAME IS : Subash Pandey  
#         WITHDRAW DATE IS : 2021/7/20  
#         WITHDRAW TIME IS : 22:29:30  
#         BEFORE WITHDRAW BALANCE IS : 11500  
#         WITHDRAW AMOUNT IS : 500  
#         CURRENT BALANCE IS : 11000  
#  
#####  
#  
#         ENTER ANY KEY TO GO BACK           #  
#  
#####
```

Step 11: if you select 3 then goes back to main menu

Step 12: option 2 to 7 process are same as option 1.

Step 12: If you select option 8 and press enter you will go back to login menu

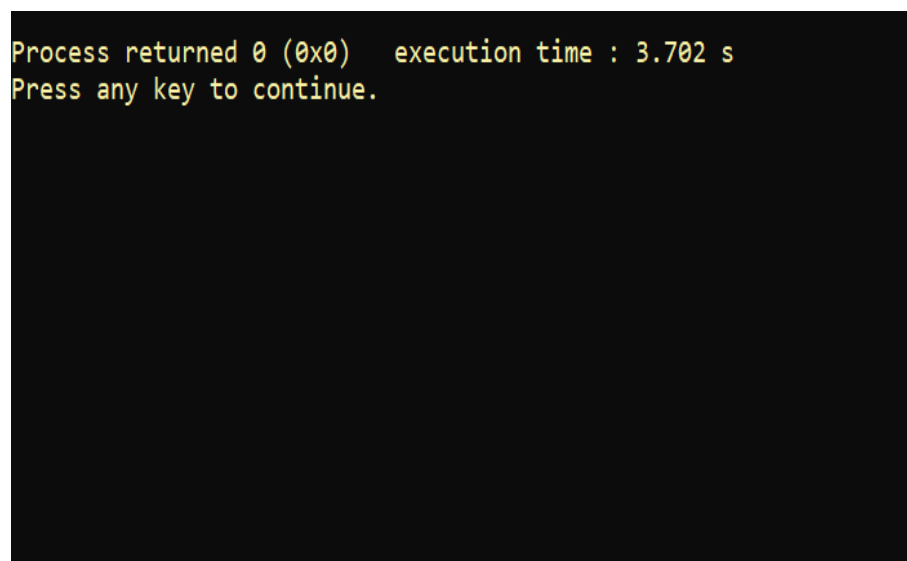
Step 13: If you select option 3, then you will see this screen

Step 14: If you press enter you will see this screen

Step 15: Then your Password is recovered.

Step 16: Press enter to return to login menu option

Step 17: If you Press 4, you will see this screen



```
Process returned 0 (0x0)  execution time : 3.702 s
Press any key to continue.
```

Step 18: After that the Program is finished.