



Daffodil
International
University

Project Documentation

Project Name: Banking system

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DEPARTMENT OF SOFTWARE ENGINEERING

Fall – 2023

DECLARATION OF PROJECT

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Title of Project: Banking System

Academic Session: 2023

I, the author, hereby declare that the project becomes the property of Daffodil International University (DIU) and to be placed at the department of Software Engineering. I also give permission to the DIU to reproduce this project in whole or in part for the purpose of research or academic exchange only.

Certified by:

SIGNATURE

STUDENT ID: 0242220005341031

Date:

SIGNATURE OF INSTRUCTOR

NAME OF INSTRUCTOR: MD. SHOHEL ARMAN

Date:

AKNOWLEDGEMENT

First and foremost all thanks to Allah for giving the strength to start and complete my project.

Secondly I want to thanks Daffodil International University for giving me a great chance to hence myself and also developing this project, thirdly I want to appreciate my department of software engineering especially our honorable head **Dr. Imran Mahmud** sir and my dear teachers for excellence teaching and providing such incredible study.

This project is called Banking System and it's about a way to banking activities more safely, really i am very proud and happy to make this project and remark one of my dreams done

I also want to thanks my dear parents for their encouragement and endless support and my friends who also gave hand for this project

Finally, I want appreciate my dear teacher **Md Shohel Arman** sir for his excellence teaching and advices during my study of his course as well as my project.

Thanks

Shafayet Islam

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Banking System

Abstract

A banking system refers to the network of institutions, such as banks and financial institutions that provide various financial services to individuals, businesses, and governments. The primary functions of a banking system include accepting deposits, providing loans, facilitating payments, and offering a range of financial products and services. The banking system plays a crucial role in the overall economy by supporting economic activities, facilitating the flow of money, and promoting financial stability.

Chapter 1: Introduction

1. Project overview

In this project a person can open a bank account with some of his or her personal information via admin and after that they can perform regular banking activities such as deposit money, withdraw money etc. And also the admin from the bank has the authority to edit the information of the account holder and also delete the account if the user doesn't need that account anymore .

2. Obstacles

I have faced some obstacles while I was writing the code of this project. Because this is a huge project and it actually needs to use different types or topics in c language.

Also, after coding of the project we have to write a gain the documentation of this project so it's little bit pain full but thanks to Allah we have successfully done it.

3. Technology Requirement(Software and hardware)

Software and application platform

➤ Code Blocks

Hardware

Unfortunately, there is no hardware used in my project.

4. Support

Provide the full support for maintenance. Give proper support so that the project will run smoothly.

5. Milestone and Reporting

- Analysis
- Development
- Testing

Milestone	Tasks	Hours	Date
1.	Analysis	28	6/8/2023
2.	Development		27/8/2023
3.	Testing		9/11/2023

6.Training

Give proper training to control the whole project. To maintain properly without any issue.

7.Contact me

You can contact me in any of the below ways:

Email: Shafayetislam283@gmail.com

Mobile: +8801810504520

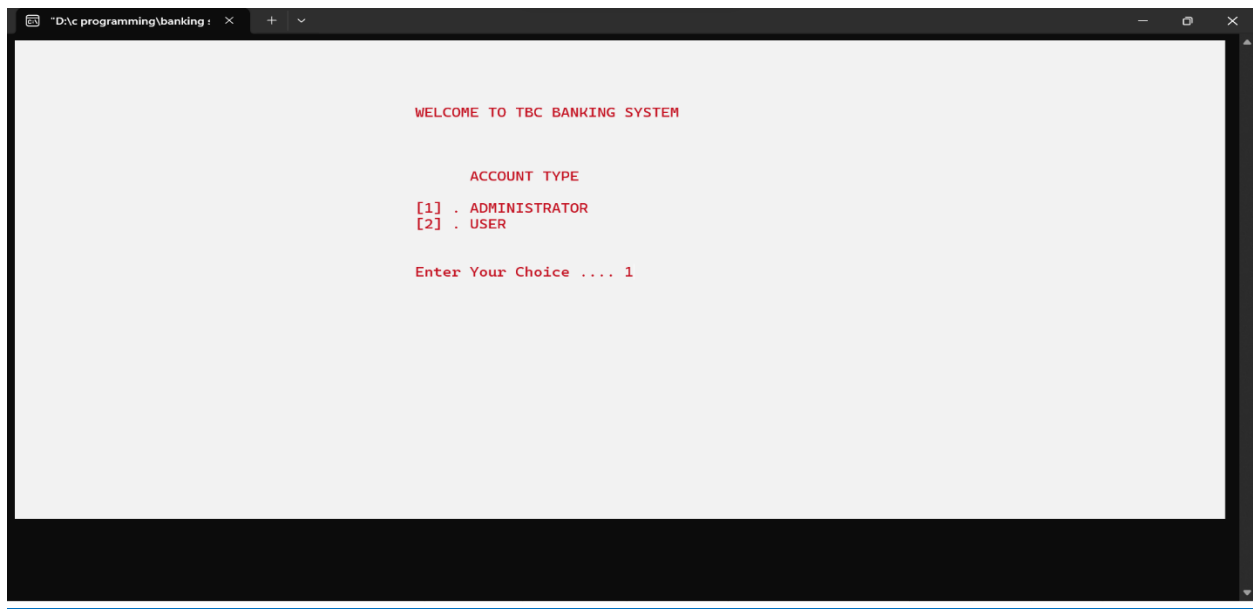
8. Requirement Elicitation

1. Administration as Admin

2. Account holder as User

Chapter 2: Project Methodology and User Manual

This is the first page of this banking system project there are 2 log in options. Let`s start with the option 1 (Administrator)

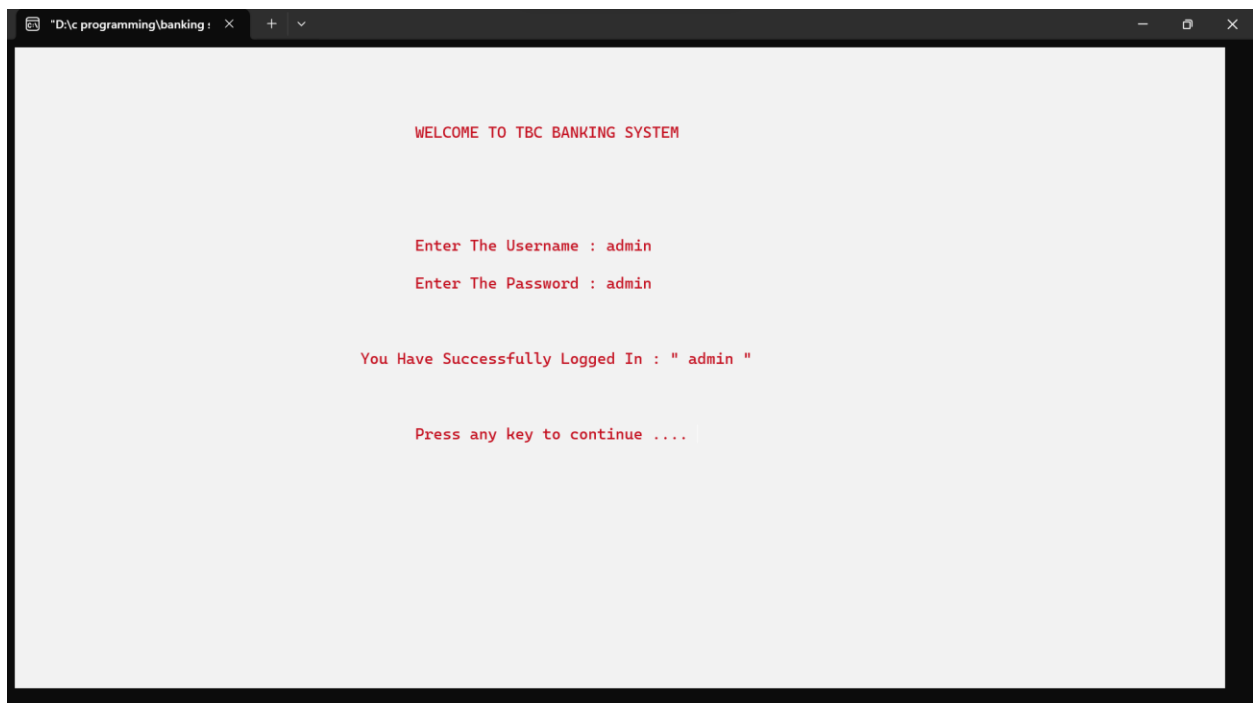


```
"D:\c programming\banking : x + v
WELCOME TO TBC BANKING SYSTEM

ACCOUNT TYPE
[1] . ADMINISTRATOR
[2] . USER

Enter Your Choice .... 1
```

There is a built in username and password if you want to log is as a administrator. If you use those you can log in.



```
"D:\c programming\banking : x + v
WELCOME TO TBC BANKING SYSTEM

Enter The Username : admin
Enter The Password : admin

You Have Successfully Logged In : " admin "

Press any key to continue ....
```

After logging in you will be able to see the administration page. In here you will be able to see the options which an administrator can use. Let`s start with 1(view customer accounts):

```
"D:\c programming\banking : X + v

WELCOME TO MAIN MENU

[1] . View Customer Accounts
[2] . Customer Account Registration
[3] . Edit Customer Account
[4] . Delete Customer Account
[5] . Search Customer Account
[6] . Transaction
[7] . Log Out !!!
[8] . About US

Please Enter Your Choice [1-8] : 1
```

In here we will be able to see the accounts which are currently being used

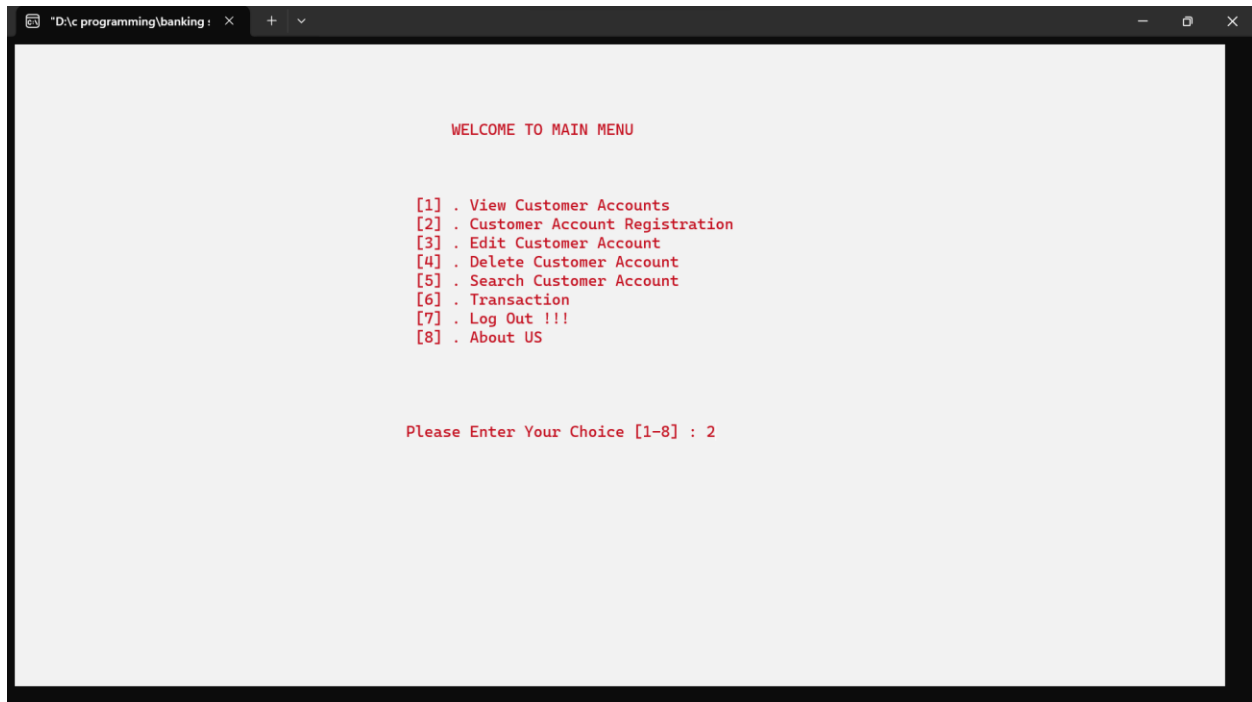
```
"D:\c programming\banking : X + v

CUSTOMERS LIST

A/C No. Account Name      UserID      Email Address      Phone No.      Balance
102030sajal01             1740948824   sf@gmail.com        018000         $5000.00
203040sajal02             5517115276   sk@gmail.com        18000          $9000.00

Press [Enter] to return back to main menu.
```

If we choose option 2 we will go to customer account registration

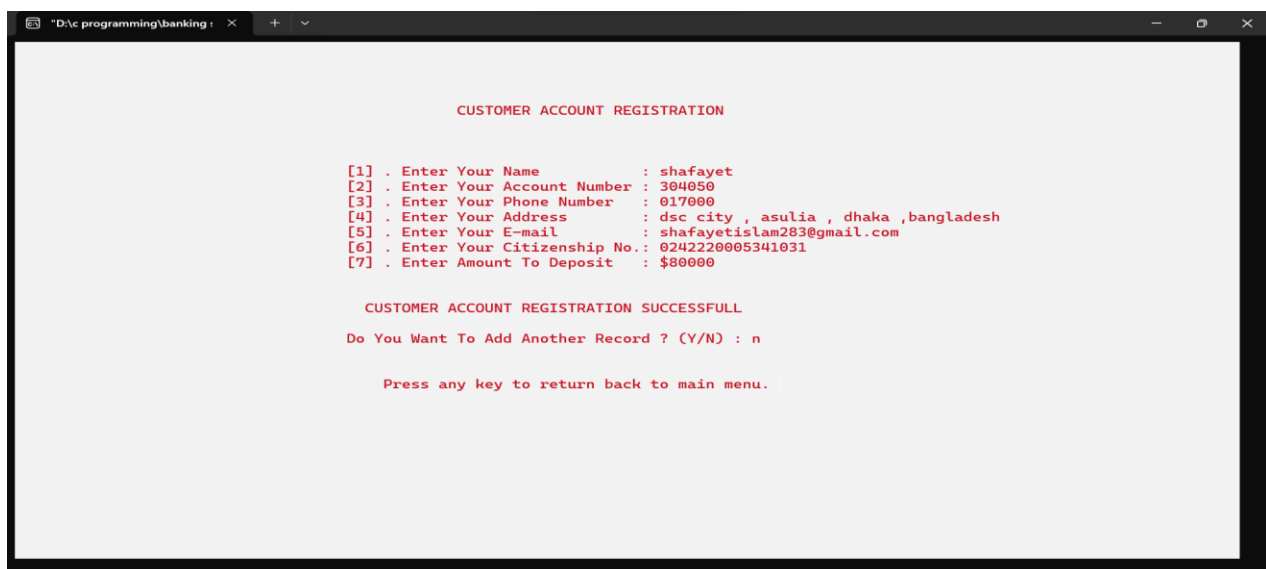


```
WELCOME TO MAIN MENU

[1] . View Customer Accounts
[2] . Customer Account Registration
[3] . Edit Customer Account
[4] . Delete Customer Account
[5] . Search Customer Account
[6] . Transaction
[7] . Log Out !!!
[8] . About US

Please Enter Your Choice [1-8] : 2
```

In this page we will be able complete the registration of a new account with some of account holder`s personal information and if we want to register another account we have to press y and if don`t we have to press n.



```
CUSTOMER ACCOUNT REGISTRATION

[1] . Enter Your Name      : shafayet
[2] . Enter Your Account Number : 304050
[3] . Enter Your Phone Number : 017000
[4] . Enter Your Address   : dsc city , asulia , dhaka , bangladesh
[5] . Enter Your E-mail    : shafayetislam283@gmail.com
[6] . Enter Your Citizenship No.: 0242220005341031
[7] . Enter Amount To Deposit : $80000

CUSTOMER ACCOUNT REGISTRATION SUCCESSFULL

Do You Want To Add Another Record ? (Y/N) : n

Press any key to return back to main menu.
```

After that if we want to renew or edit any kind of information of the account holder we can do that by pressing option 3. From here we can do that with ease.



```
"D:\c programming\banking : x + v
EDIT CUSTOMER ACCOUNT

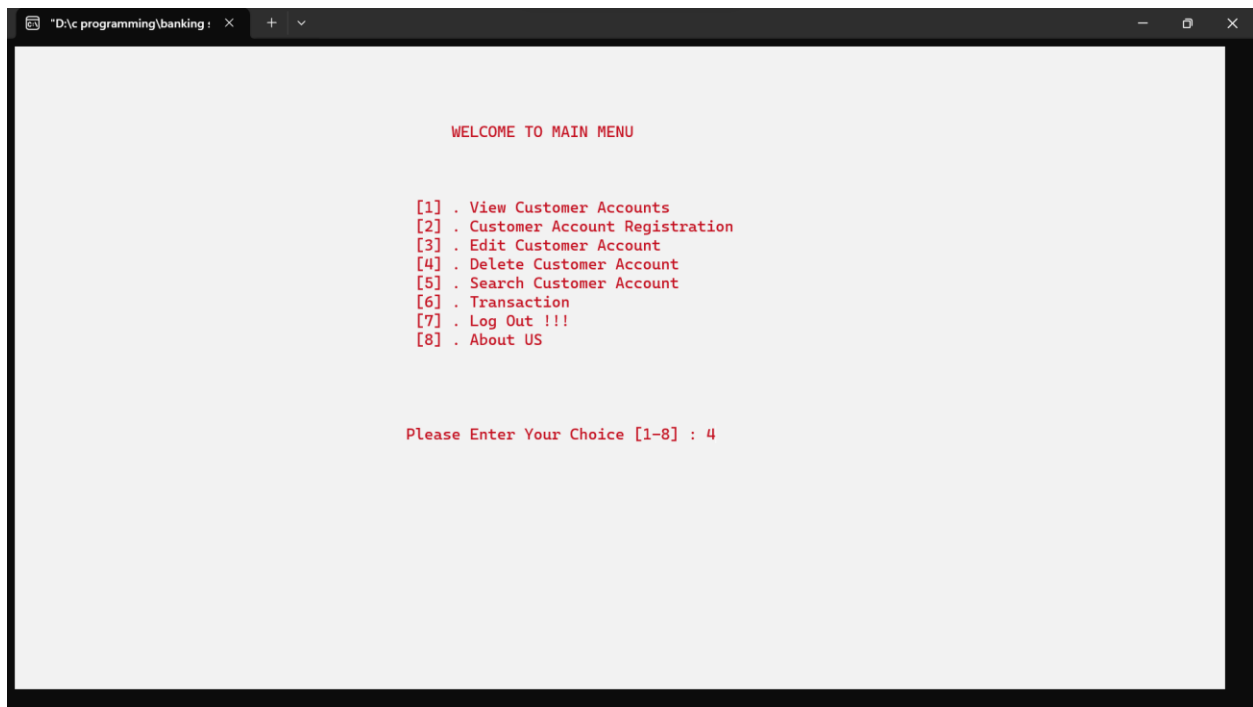
Enter Your Account Number To Edit : 102030

Enter Your Details
[1] . Enter Your Name      : sajal01
[2] . Enter Your Account Number : 102030
[3] . Enter Your Phone Number : 018000
[4] . Enter Your Address   : asulia
[5] . Enter Your E-mail    : sf@gmail.com
[6] . Enter Your Citizenship No : 024222000

CUSTOMER ACCOUNT UPDATE SUCCESSFULL

Press any key to return back to main menu .
```

After that if we choose option 4 we can permanently delete an account



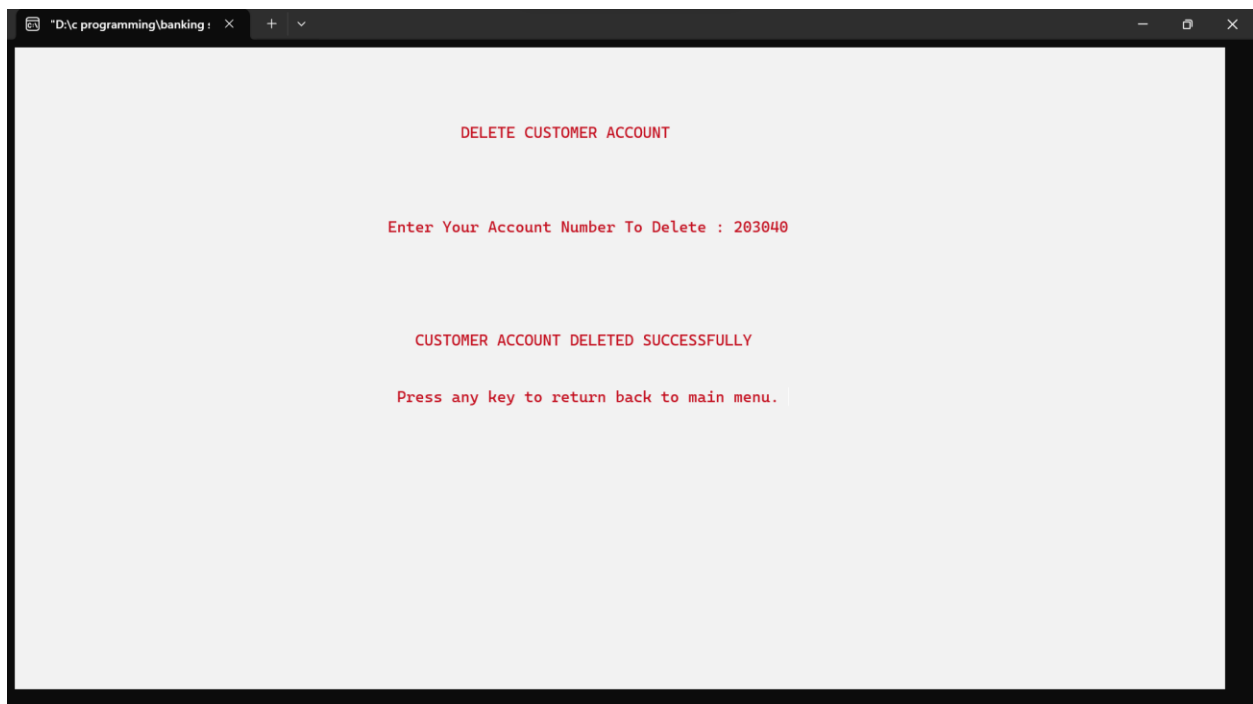
A screenshot of a Windows application window titled "D:\c programming\banking :". The window displays a main menu with the following text:

```
WELCOME TO MAIN MENU

[1] . View Customer Accounts
[2] . Customer Account Registration
[3] . Edit Customer Account
[4] . Delete Customer Account
[5] . Search Customer Account
[6] . Transaction
[7] . Log Out !!!
[8] . About US

Please Enter Your Choice [1-8] : 4
```

We just have to put the account number of that customer to delete the account



A screenshot of a Windows application window titled "D:\c programming\banking :". The window displays a screen for deleting a customer account with the following text:

```
DELETE CUSTOMER ACCOUNT

Enter Your Account Number To Delete : 203040

CUSTOMER ACCOUNT DELETED SUCCESSFULLY

Press any key to return back to main menu.
```

Let`s go to option 5

```
"D:\c programming\banking : X + v
WELCOME TO MAIN MENU

[1] . View Customer Accounts
[2] . Customer Account Registration
[3] . Edit Customer Account
[4] . Delete Customer Account
[5] . Search Customer Account
[6] . Transaction
[7] . Log Out !!!
[8] . About US

Please Enter Your Choice [1-8] : 5
```

Here if we give the name or the number of the account we can find the account's detailed information

```
"D:\c programming\banking : X + v
SEARCH CUSTOMER ACCOUNT

Enter Your Full Name To Search : sajal01

Detail Information of SAJAL01
[1] . Account Number : 102030
[2] . Name : SAJAL01
[3] . UserID : 1740948824
[4] . Phone Number : 018000
[5] . Address : asulia
[6] . E-mail : sf@gmail.com
[7] . Citizenship No : 02422000
[8] . Current Balance: $5000.00

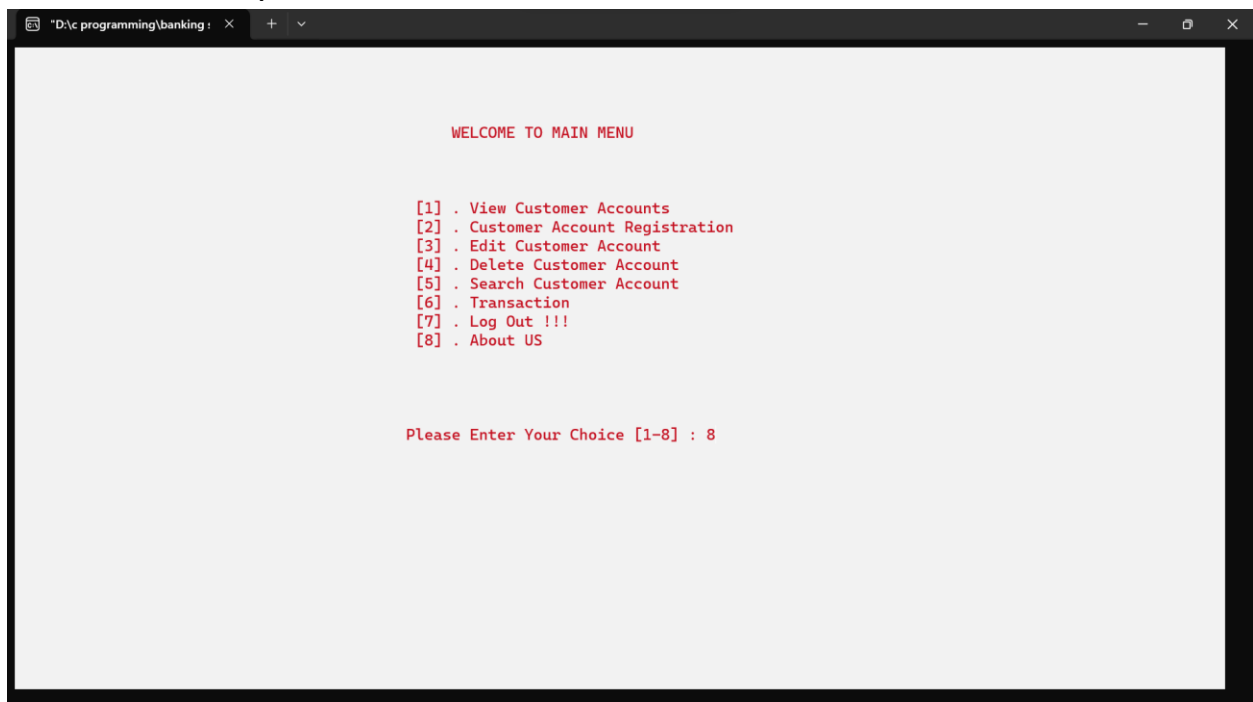
Account Number Matched. User is Active.

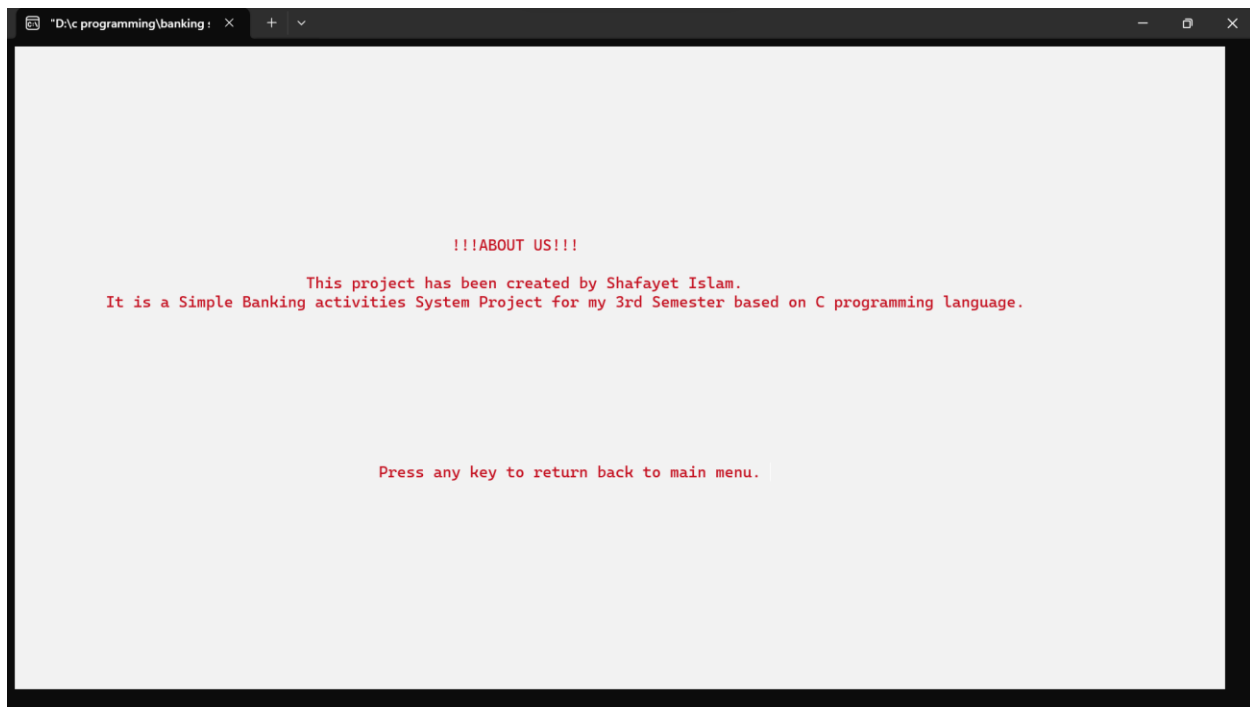
Press [ENTER] to return back to main menu.
```

If we select option 6 from the main menu we will be able to see this page. From here we can check transaction details such as balance inquiry, cash deposit and withdrawal



If we choose option 8 we will be able to see some information of author





A screenshot of a terminal window titled "D:\c programming\banking :". The window displays the following text in red:

```
!!!ABOUT US!!!  
  
This project has been created by Shafayet Islam.  
It is a Simple Banking activities System Project for my 3rd Semester based on C programming language.  
  
Press any key to return back to main menu.
```

And lastly if we choose option 7 we will log out from the administrator portal and after that we will be able to log in as a user.



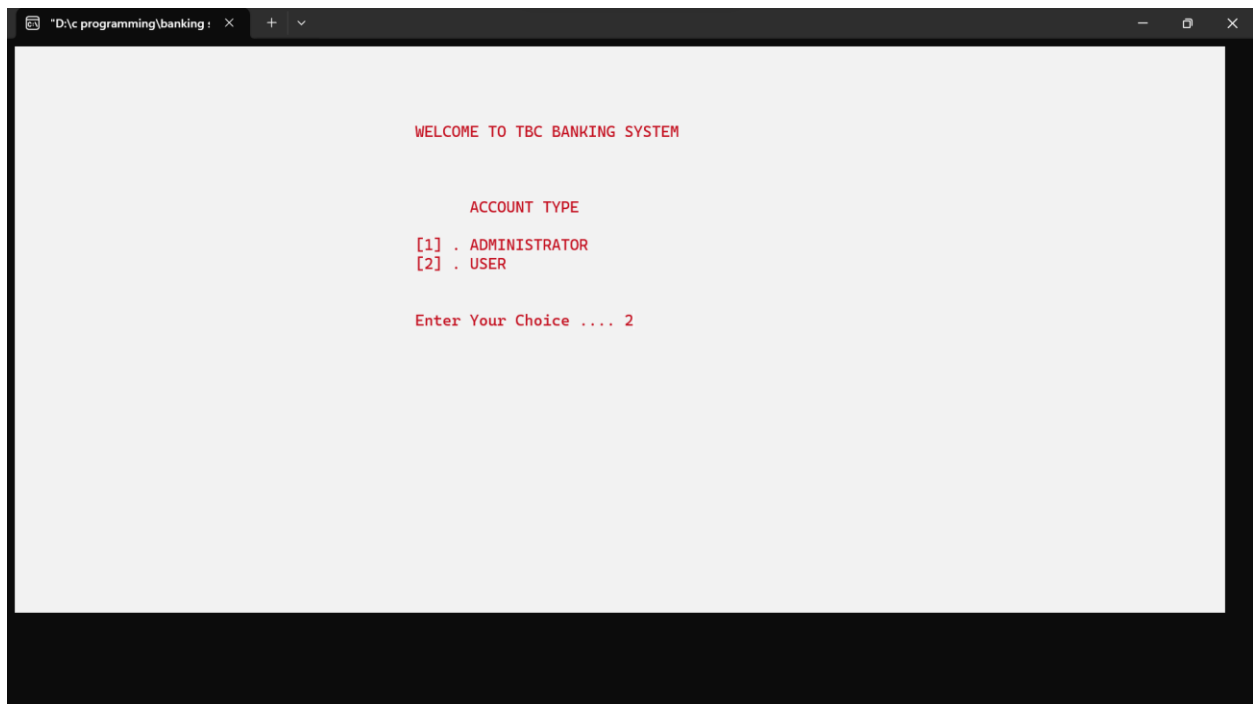
A screenshot of a terminal window titled "D:\c programming\banking :". The window displays the following text in red:

```
WELCOME TO MAIN MENU  
  
[1] . View Customer Accounts  
[2] . Customer Account Registration  
[3] . Edit Customer Account  
[4] . Delete Customer Account  
[5] . Search Customer Account  
[6] . Transaction  
[7] . Log Out !!!  
[8] . About US  
  
Please Enter Your Choice [1-8] : 7
```



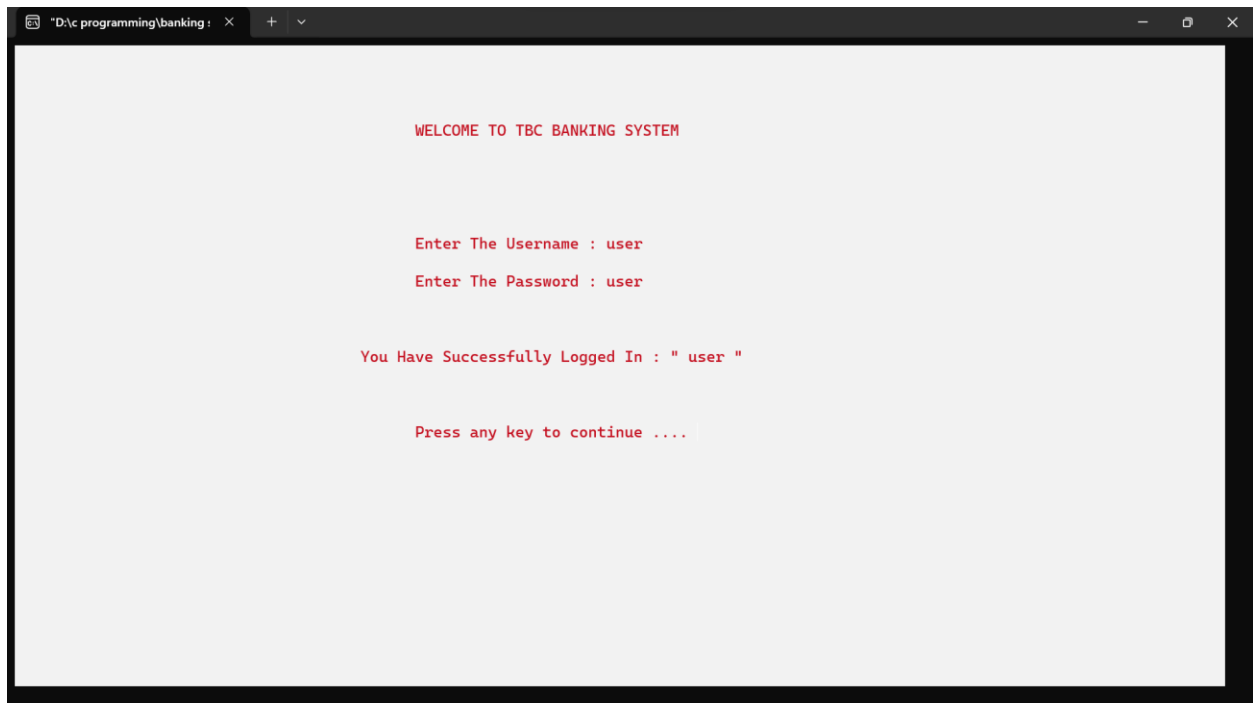
```
"D:\c programming\banking :  
  
!!! THANK YOU !!!  
USER :: admin  
  
Process returned 0 (0x0) execution time : 925.410 s  
Press any key to continue.
```

Now let`s log in as a user by choosing option 2

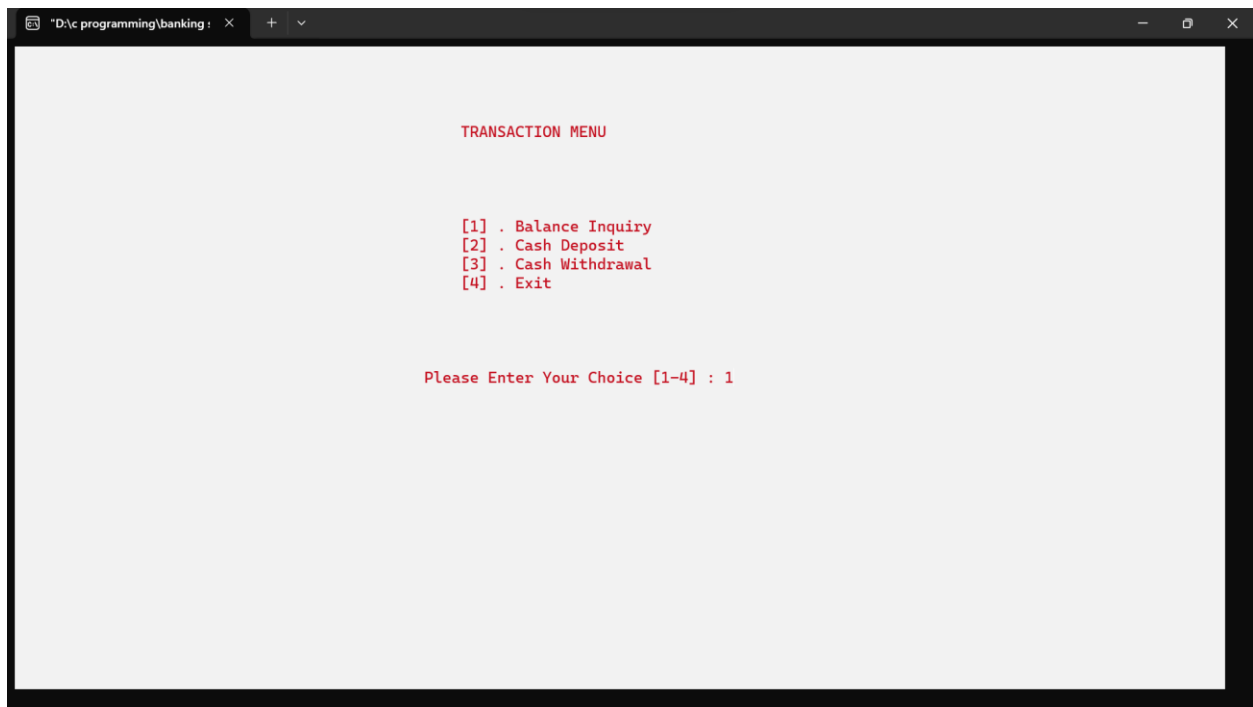


```
"D:\c programming\banking :  
  
WELCOME TO TBC BANKING SYSTEM  
  
ACCOUNT TYPE  
[1] . ADMINISTRATOR  
[2] . USER  
  
Enter Your Choice .... 2
```

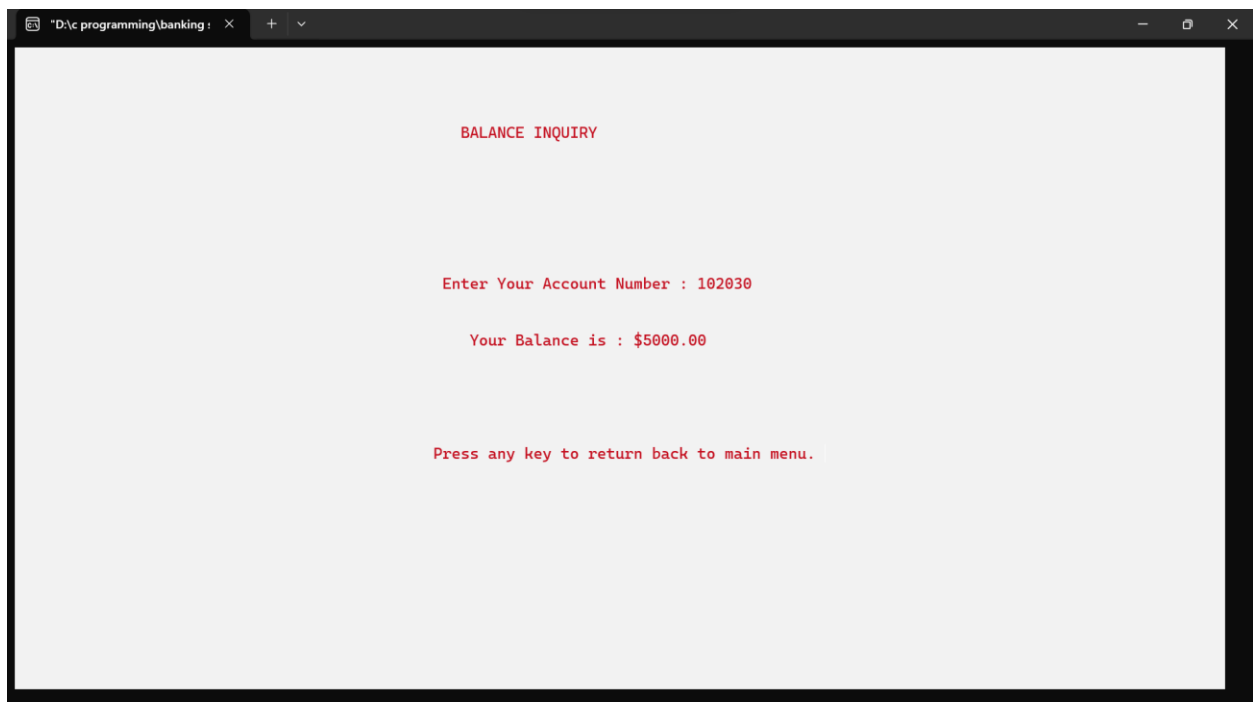
Just like the administration here is also a built in username and password to log in as a user. If we use that we will be able to log in as a user



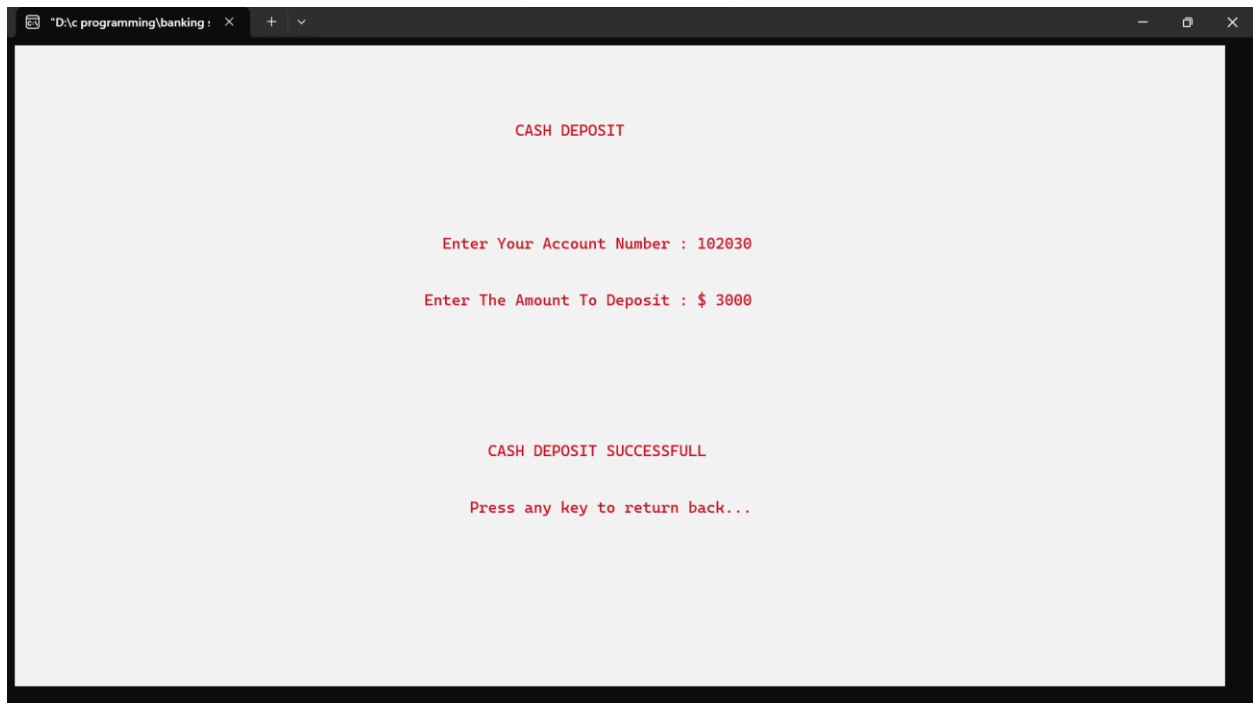
After successfully logging in we will be able to see the options that a user can use from the system



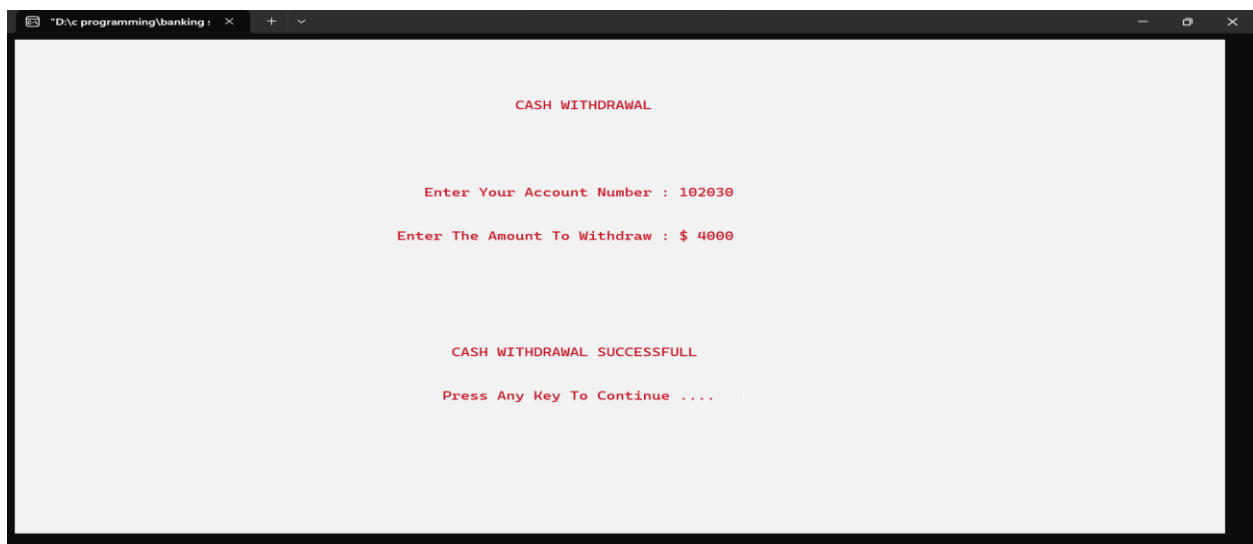
If we choose option 1 we will be able to see how much money we have in our account by entering our account number



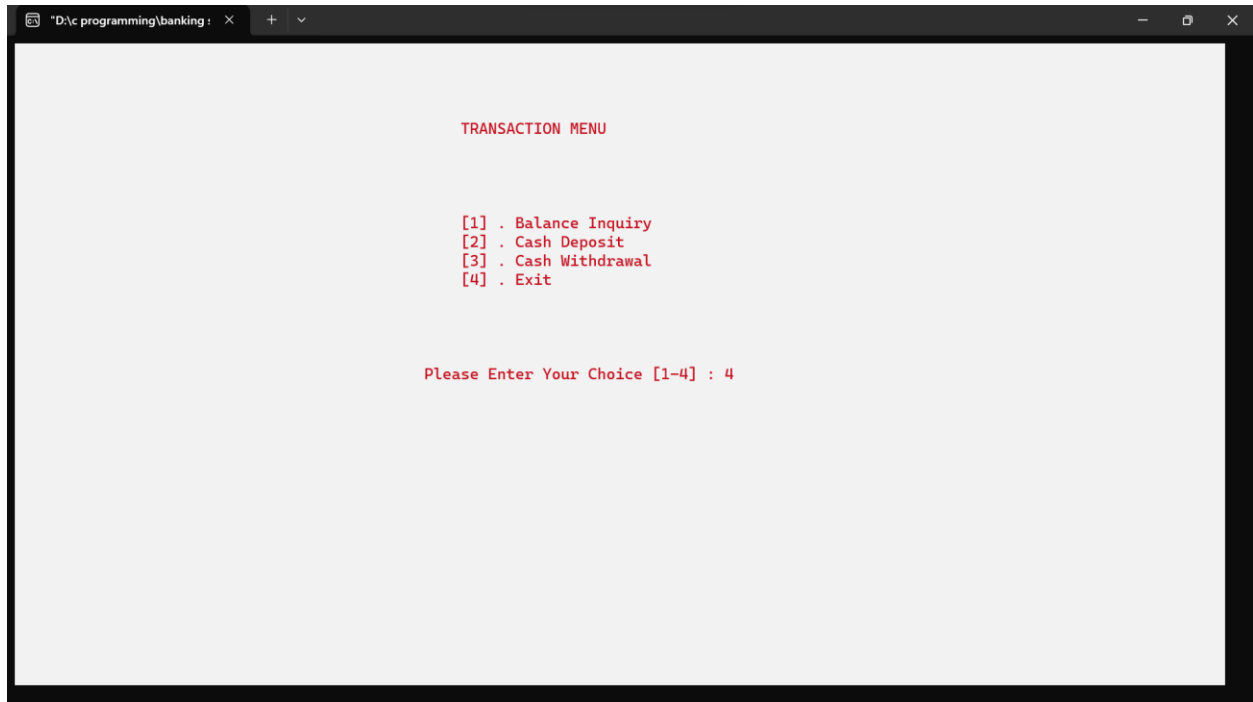
If we choose the option 2 from the main menu we will be able to deposit money in our account after entering our account number and the amount of money we want to deposit



If we choose option 3 from the main menu we will be able to withdraw the amount of money we need by entering account number



After that if we want to log out as a user we will be able to do so by choosing option 4

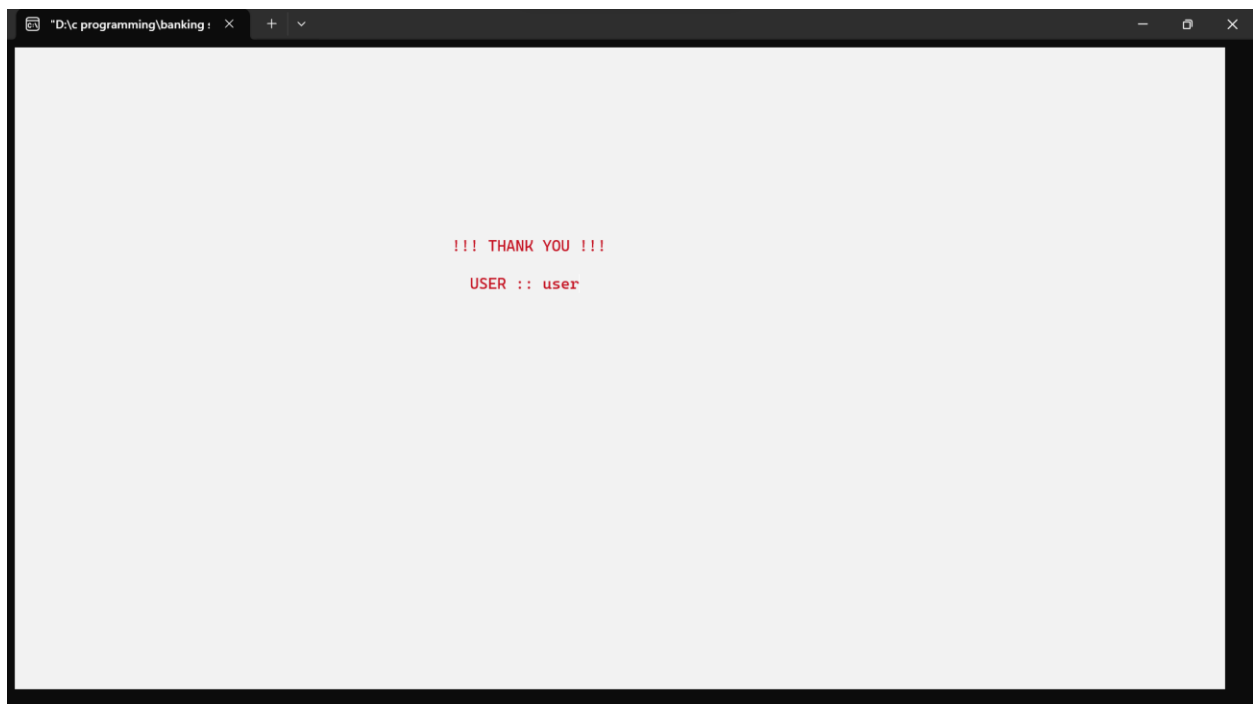


A screenshot of a terminal window titled "D:\c programming\banking :". The window displays a red text menu titled "TRANSACTION MENU". The menu lists four options: [1] . Balance Inquiry, [2] . Cash Deposit, [3] . Cash Withdrawal, and [4] . Exit. Below the menu, a prompt "Please Enter Your Choice [1-4] : 4" is shown, indicating that option 4 has been selected.

```
TRANSACTION MENU

[1] . Balance Inquiry
[2] . Cash Deposit
[3] . Cash Withdrawal
[4] . Exit

Please Enter Your Choice [1-4] : 4
```



A screenshot of a terminal window titled "D:\c programming\banking :". The window displays a red text message "!!! THANK YOU !!!" followed by "USER :: user", indicating that the user has successfully logged out.

```
!!! THANK YOU !!!

USER :: user
```

CHAPTER 3: SYSTEM INFO

3.1: DESIGN AND IMPLEMENTATION

Software language used

➤ **C language**

3.2: REQUIREMENT SPECIFICATION

Windows OS Xp , Windows Vista or Windows 7. At least 2.0 GHz Processor speed, At least 40 GB Hard Disk Capacity and 512 RAM

3.3: File management

In my system, make lots of random name file for its own use purpose, and after use it can delete it automatically. And this file are not countable because it depends on user command and user can delete it manually from user console.

3.4: PRIORITIZATION

Serial Number	Requirement	Dollar
01	Log In	14
02	View Accounts	08
03	Account registration	15
04	Edit Account	09
05	Delete Account	10
06	Search Account	09
07	Transaction	07
08	About Us	05
09	Balance Inquiry	10
10	Cash Deposit	10
11	Cash Withdrawal	10
12	Log Out	14
	Total	100

Chapter 4: Use Case

Use case	Log In
Goal	To verify portal individuality
Preconditions	Must know built in name and password
Success End Condition	Successfully logged in
Failed End Conditions	Log in failed .Try again
Primary Actors	Administrator , Account holder
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Log Out \ Exit
Goal	To log out of the system
Preconditions	Must be logged in
Success End Condition	Successfully logged out
Failed End Conditions	Try again
Primary Actors	Administrator , Account Holder
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	View Accounts
Goal	To see available accounts
Preconditions	Choose this option
Success End Condition	Able to see the accounts
Failed End Conditions	Unable to see the accounts
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Account Registration
Goal	Register a new account
Preconditions	Must have necessary information
Success End Condition	Successfully registered a new account
Failed End Conditions	Failed to register a new account
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Delete Account
Goal	To delete an existing account
Preconditions	Must exist that account
Success End Condition	Successfully deleted the account
Failed End Conditions	Failed to delete the account
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Edit Account
Goal	To renew the existing information
Preconditions	Must exist that account
Success End Condition	Successfully edited the account
Failed End Conditions	Failed the edit the account
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Search Account
Goal	To find the account
Preconditions	Must exist that account
Success End Condition	Found the account
Failed End Conditions	Unable to find the account
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Transactions
Goal	To see account holder`s transactions
Preconditions	Must exist that account
Success End Condition	Able to see the Transactions
Failed End Conditions	Failed to see the transactions
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	About Us
Goal	To see Author`s Information
Preconditions	Choose this option
Success End Condition	Able to see the information
Failed End Conditions	Unable to see the Information
Primary Actors	Administrator
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Balance Inquiry
Goal	To see current balance of the account
Preconditions	N\A
Success End Condition	Able to see the current balance
Failed End Conditions	Unable to see the current balance
Primary Actors	Account Holder
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Cash Deposit
Goal	To deposit cash in the account
Preconditions	N\A
Success End Condition	Successfully deposited the cash
Failed End Conditions	Failed to deposit the cash
Primary Actors	Account holder
Secondary Actors	N\A
Description / Main Success Scenario	Action

Use case	Cash Withdrawal
Goal	To withdraw cash from the account
Preconditions	Must have cash in the account
Success End Condition	Success of withdrawal of the cash
Failed End Conditions	Failed to withdraw the cash
Primary Actors	Account holder
Secondary Actors	N\A
Description / Main Success Scenario	Action

Chapter 5: Conclusion

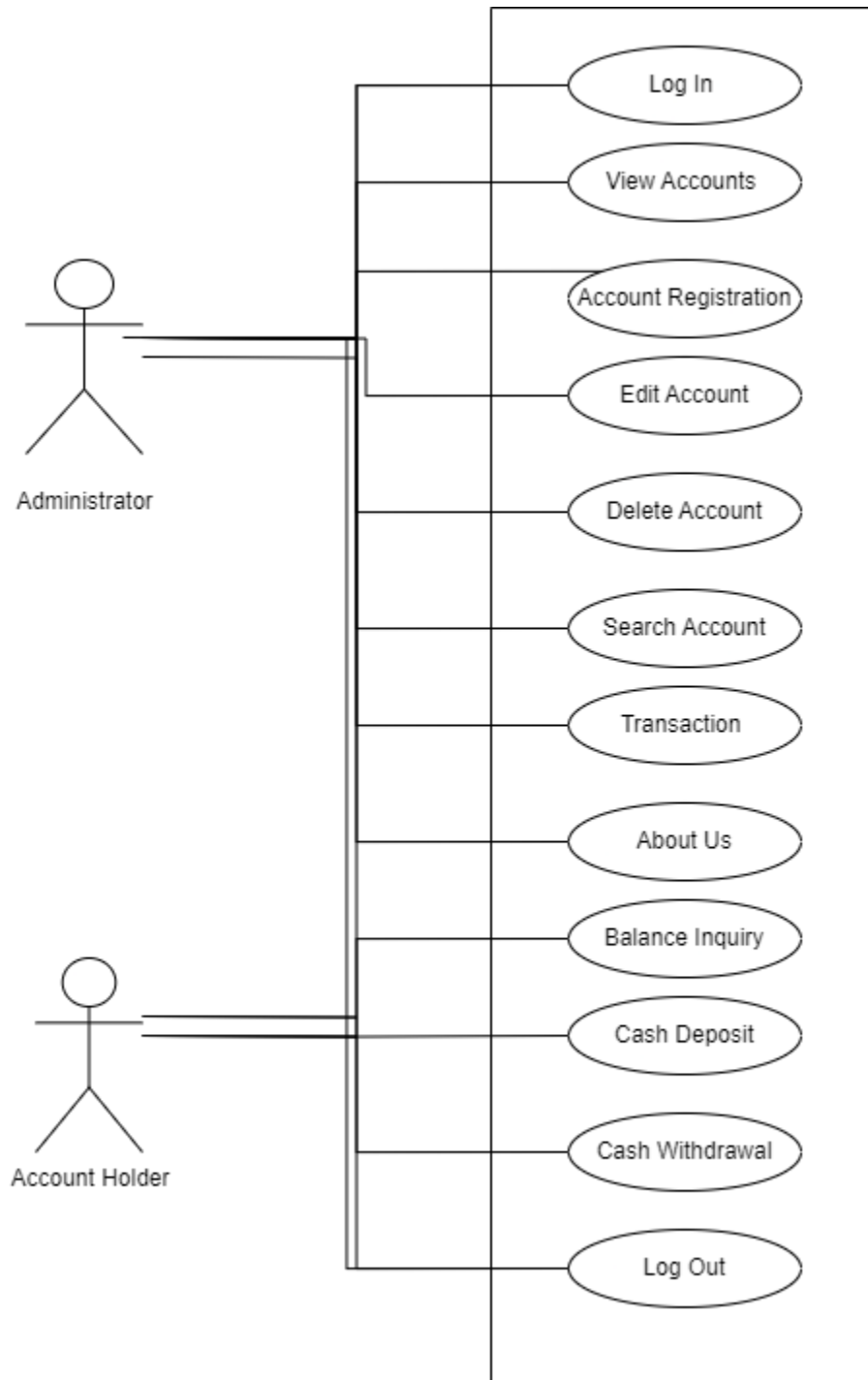
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Use Case Diagram

Conclusion

This project has provided valuable insights into the world of programming and has equipped me with practical experience in software development. I am grateful for the opportunity to work on this project and look forward to applying the knowledge gained in future endeavors.

Use Case Diagram: Banking System



<https://github.com/Shafayet283/Banking-System>