

Project report on Bank Management System

Course Code: CSE 100

COURSE NAME: Software Development I

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December 2021

Declaration

We do hereby declare that the research works presented in this thesis entitled "Bank Management System in c program" are the results of our own works. We further declare that the thesis has been compiled and written by us. No part of this thesis has been submitted elsewhere for the requirements of any degree, award or diploma, or any other purposes except for publications. The materials that are obtained from other sources are duly acknowledged in this thesis.

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Approval

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Acknowledgement

We would like to express our heartfelt gratitude to the almighty Allah who offered upon our family and us kind care throughout this journey until the fulfilment of this research.

Also, we express our sincere respect and gratitude to our supervisor, Chairman and Associate Professor, Department of Computer Science and Engineering, Bangladesh University of Business and Technology (BUBT). Without his guidance, this research work would not exist. We are grateful to him for his excellent supervision and for putting his utmost effort into developing this project. We owe him a lot for his assistance, encouragement, and guidance, which has shaped our mentality as a researcher.

Finally, we are grateful to all our faculty members of the CSE department, BUBT, to make us compatible to complete this research work with the proper guidance and supports throughout the last four years.

Abstract

The "Bank Management System" is a distributed application, developed to maintain the details of customers in any bank. It maintains the information about the details of any customers. The application is actually a suite of applications developed using c. It is simple to understand and can be used by anyone who is not even familiar with simple bank management system. It is user friendly and just asks the user to follow step by step operations by giving him/her few options. It is fast and can perform many operations of a bank. This project is developed using C language and executed in Microsoft visual C++ with Ms-Access as a backend.

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Dedication

Our Loving Parents and Teachers who's Support give us Strength and determination to accomplish our Goal...!!

1. INTRODUCTION

1.1 Introduction

The "Bank Management System" project is a model Banking Site. This site enables the customers to perform the basic banking transactions by sitting at their office and the bank officer can easily doing their work by this system. The system provides the access to the customer to create an account, deposit/withdraw the cash from his account, also to view reports of all accounts present. The customers can access the banks website for viewing their Account details and perform the transactions on account as per their requirements. This project will give you a realistic feel of the bank where you can perform activities which are done in the real banks.

1.2 Problem Statement

A new opportunity that the present system cannot handle pressures Man- agers, nonmanagers or environment elements usually recognize problems very rarely by information specialists.

Managers find out where the problem exists what the cause might be.

In defining the problem:

- 1. In the current system data related to banking is maintained by writing it on to various registers.
- 2. Registers may lost or damage.

- 3. Any unauthorized person can access confidential data.
- 4. Any information cannot be easily e.
- 5. Each A/C and customer is assigned a unique code. Whenever a new book or member is added then librarian has to search whether that code is previously existing or not.
- 6. When a particular A/c is to be modified for one or more fields the user can be modified.
- 7. There is time wastage in data accessing, data entry and while data retrieving from the banking register.

1.3 Problem Background

The Project Banking system has been made to automate the Banking system. Through this bank management system user can manage all bank account activity like deposit money, withdraw money, transfer money from one account to another account, online payment etc. Using this bank management system user can check his account detail online like balance in account, bank statement etc. The Administrator can check bank account with a login can work out with A/C holders of the bank can withdraw/ deposit cash / cheque /DD to/from their accounts. This system is also help bank user to create New account easily. The project makes a sincere effort to provide all the belowmentioned features to meet the requirements of the bank.

1.4 Objectives

The main objective of this system is to provide a secure system. Our system is password protected and it only allows authorized users to access various functions available in the system. It will reduce manual work as most of the work is done by computer. It will increase work speed and reduce time consumption to complete any bank related work. This will reduce the manual workload and give information instantly. This system is also helpful to create new accounts easily. The project makes a sincere effort to provide all mentioned features to meet the requirements of the bank. This will reduced the manual workload and give information instantly. The software will maintain the list of A/C and customer record and balance status. The software will be user friendly so that even a beginner can operate the package and thus maintain the status of A/C and balance status easily.

The major objectives of the above system are:

- 1. It creates a user-friendly environment, where a normal user can access all the benefits of the online system.
- 2. It provides security from unauthorized access
- 3. IT increases efficiency and also saves time.
- 4. Easily access to saved data in the system.
- 5. Transaction operations are easily handled.
- 6. Second and less time-consuming.

1.5 Motivations

The Traditional way of maintaining details of a user in a bank was to enter the details and record them. Every time the user needs to perform some transactions he has to go to bank and perform the necessary actions, which may not be so feasible all the time. It may be a hardhitting task for the users and the bankers too. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain. Here, we provide automation for banking system through Internet. Online Banking System project captures activities performed by different roles in real life banking which provides enhanced techniques for maintaining the required information up-to-date, which results in efficiency. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain

2.BACKGROUND

2.1 introduction

As the name suggests this project is based on the bank system where you can perform operations like opening a bank account, managing transactions like debiting and crediting money. For opening a bank account you need to add name, Id, date of birth, account number, age, address, citizenship, phone number. In this project, you can also check the list of existing customers and also can remove an account with the help of inbuilt operations. This project will give you a realistic feel of the bank where you can perform activities which are done in the real banks.

2.2 Existing System Analysis

This bank management system also allow user to add new customer account, delete account and user can also modify existing user account information. Using this system user can also search any individual account in few seconds. Using our bank management system user can also check any translation in any account. Our system also provide security check to reduce fraud. The system will check the user's existence in the database and provide the set of services with respect to the role of the user. Our system will help the user to Locate any A/C wanted by the user. It will Reduced manual work as most of the work done by computer. As all the manual work will be done automatically so it will increase work speed and reduce time consumption to complete any bank related work. It will also increase the work efficiency as few employees can handle more customers. This will reduced the manual workload and give information instantly.

2.3 Feasibility Study

Depending on the result of the initial investigation the survey was expanded to a more detailed feasibility study. Feasibility is the process of defining exactly what is and what strategic issue needs to be considered to access its feasibility, or likelihood of succeeding. Feasibility studies are useful both when starting a new business and identifying a new opportunity for an existing business. Feasibility study is a test of a system proposal according to its workability and impact on the organization, ability to meet user needs and effective use of resources. The feasibility study conducted for this project mainly gives answer to these

2.3.1 Economic Feasibility

No fund

2.3.2 Technical Feasibility

Software and Hardware availability

2.3.3 Schedule Feasibility

Sufficient time availability

3. REQUIREMENT ANALYSIS

3.1 Introduction

Calculation of the gap between the present performance of the system and of the best possible one and finding out the system that can fill in this gap Using:

- 1. Interviews
- 2. Surveys
- 3. Direct observation

3.2 Software Requirement

Software Used:-

The software used by the programmer for developing our project named "Bank Management System" is as follows:-

- 1. Coding of the project C
- 2. Components of the project C
- 3. Operating System: Windows 10
- 4. Using COdeblocks softwere

3.3 Hardware Requirement

The hardware used by the programmer for developing our project named "Bank Management system" is as follows:-

- i. Processor- Core i3 CPU 3.10GHz
- ii. SSD- 224 GB
- iii. HDD- 1 TB
- iv.RAM- 12 GB
- v.Graphic-GeForce GTX 1050 Ti

4. IMPLEMENTATION AND TESTING

4.1 Introduction

This section explains the Bank Management System proposed. This project aims to develop a banking system that is clean, user-friendly, and multi- functional. The development of this system includes several fields such that the user feels comfortable and the system appears as dynamic to him

4.2 System Setup

Installation:- Banking project can easily be installed on to your system.

To install do the following steps

- 1. Insert floppy disk into floppy drive.
- 2. Copy "Project" folder from there and paste it to C Drive.
- 3. A file banking.exe is present in Project folder.

Now Banking project has installed onto your system. To use banking project

double click on banking.exe.

4.3 Functionalities

The source code for Customer Account Bank Management System is rela- tively short and easy to understand. I have divided this C mini project into many functions, most of which are related to different banking activities. Listed below are some of the more important functions which may help you understand the project better.

4.3.1 Function 1

Menu() -

This function displays the menu or welcome screen to perform different banking activities mentioned below.

4.3.2 Function 2

New account() -

This function creates a new customer account. It asks for some personal and banking details of the customer such as name, date of birth, citizenship number, address and phone number. You can enter the amount to deposit and choose one type of deposit account – saving, current, fixed for 1 year, fixed for 2 years or fixed for 3 years.

4.3.3 Function 3

View list() -

With this function, you can view the customer's banking information such as account number, name, address and phone number provided while creating the account.

4.3.4 Function 4

Edit() -

This function has been used for changing the address and phone number of a particular customer account.

4.3.5 Function 5

Transact() –

With this function, you can deposit and withdraw money to and from a particular customer account.

4.3.6 Function 6

Erase() -

This function is for deleting a customer account.

4.3.7 Function 7

See() -

This function shows account number, name, date of birth, citizenship number, age, address, phone number, type of account, amount deposited and date of deposit. It also displays the amount of interest corresponding to a particular account type.

4.4 Implementation

Full code of the project:

```
#include<stdio.h>
#include<stdlib.h>
#include<windows.h>
#include<conio.h>
int main exit;
void menu();
struct date
{
  int month, day, year;
};
struct
{
  char name[100];
  int acc_no,age;
  char address[100];
  char NID[100];
  double phone;
  char acc_type[100];
  float amt;
  struct date dob;
  struct date deposit;
  struct date withdraw;
}
```

```
add,upd,check,rem,transaction;
float interest(float t,float amount,int rate)
  float SI;
  SI=(rate*t*amount)/100.0;
  return (SI);
}
int i,j;
void fordelay(int j)
{ int i,k;
  for(i=0;i<j;i++)
     k=i;
void red ()
 printf("\033[1;31m");
void white()
 printf("\033[1;37m");
void cyan()
 printf("\033[1;36m");
void new_acc()
```

```
{
system("color B0");
int choice;
FILE *ptr;
ptr=fopen("record.dat","a+");
account no:
system("cls");
2");
printf("\n\t\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
printf("\n\t\t\t\t\t
          ADD RECORD for REGISTRATION");
printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
printf("\n\n\t\t\xB2\xDB Enter today's date(mm/dd/yyyy):");
scanf("%d/%d",&add.deposit.month,&add.deposit.day,&add.dep
osit.year);
```

```
printf("\n\t\xB2\xDB Enter the account number:");
  scanf("%d",&check.acc no);
  while(fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",&add.acc no,add.name,&add.dob.month,&add.dob.d
ay,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.a
cc type,&add.amt,&add.deposit.month,&add.deposit.day,&add.dep
osit.year)!=EOF)
  {
    if (check.acc no==add.acc no)
      {
        printf("Account no. already in use!");
        fordelay(100000000);
        goto account_no;
      }
  add.acc no=check.acc no;
  printf("\n\t\xB2\xDB Enter the name:");
  scanf("%s",add.name);
  printf("\n\t\xB2\xDB Enter the date of birth(mm/dd/yyyy):");
scanf("%d/%d/%d",&add.dob.month,&add.dob.day,&add.dob.year);
  printf("\n\t\xB2\xDB Enter the age:");
  scanf("%d",&add.age);
  printf("\n\t\xB2\xDB Enter the address:");
  scanf("%s",add.address);
  printf("\n\t\xB2\xDB Enter the NID number:");
  scanf("%s",add.NID);
  printf("\n\t\xB2\xDB Enter the phone number: ");
  scanf("%lf",&add.phone);
```

```
printf("\n\t\xB2\xDB Enter the amount to deposit:$");
  scanf("%f",&add.amt);
  printf("\n\t\t\xB2\xDB\xDB Type of
account:\n\t\t#Saving\n\t\t#Current\n\t\t#Fixed1(for 1
year)\n\t\t#Fixed2(for 2 years)\n\t\t#Fixed3(for 3
years)\n\n\t\tEnter your choice: ");
  scanf("%s",add.acc type);
  fprintf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,add.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
  fclose(ptr);
  printf("\n\t\xB2\xDB Account created successfully! \xDB\xB2");
  add invalid:
  printf("\n\n\t\xB2\xB2 Enter 1 to go to the main menu and 0
to exit:");
  scanf("%d",&main exit);
  system("cls");
  if (main exit==1)
    menu();
  else if(main_exit==0)
    close();
  else
    {
      printf("\nInvalid!\a");
      goto add invalid;
    }
}
```

```
void edit(void)
 int choice, test=0;
 FILE *old,*newrec;
 system("color B");
 old=fopen("record.dat","r");
 newrec=fopen("new.dat","w");
 printf("\n\n\t\t\t\t
printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
 printf("\n\t\t\t\t\t\t UPDATE INFORMATION");
 printf("\n\t\t\ \xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
 printf("\n\t\t\t\t
printf("\n\n\n\t\t\xB2\xB2 Enter the account no. of the
customer whose info you want to change:");
 scanf("%d",&upd.acc no);
 while(fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
```

```
%d/%d/%d",&add.acc no,add.name,&add.dob.month,&add.dob.day
,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.acc
type,&add.amt,&add.deposit.month,&add.deposit.day,&add.depos
it.year)!=EOF)
    if (add.acc no==upd.acc no)
      test=1;
      printf("\n\n\t\t\t\xB2\xB2 Which information do you want
to change?\n\n\t\t\t1.Address\n\t\t\t2.Phone
number\n\n\t\t\tEnter your choice: ");
      scanf("%d",&choice);
      system("cls");
      if(choice==1)
         printf("\n\n\t\t\t\xB2 Enter the new address:");
         scanf("%s",upd.address);
         fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,upd.address,add.NID,add.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
         system("cls");
         printf("\n\n\n\t\t\t\t\t\tChanges saved!");
        }
      else if(choice==2)
        {
          printf("\n\n\t\t\t\xB2 Enter the new phone
number:");
          scanf("%lf",&upd.phone);
```

```
fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,upd.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
          system("cls");
          printf("\n\n\n\t\t\t\t\xB2 Changes saved!");
        }
    }
      else
         fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,add.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
  fclose(old);
  fclose(newrec);
  remove("record.dat");
  rename("new.dat","record.dat");
  if(test!=1)
    {
      system("cls");
      printf("\n\t\t\tRecord not found!!\a\a\a");
      edit invalid:
       printf("\n\n\t\t\t\t\xB2\xB2 Enter your
choice..\n\n\t\t\t0 to try again\n\t\t\t1 to return to main
menu\n\t\t\t2 to account details\n\t\t\t3 to exit\n\n\t\t\t
Enter: ");
```

```
scanf("%d",&main exit);
       system("cls");
        if (main exit==0)
        {
           edit();
        }
           else if (main_exit==1)
        {
           menu();
        else if(main_exit==2)
           see();
        else if(main_exit==3)
           close();
         }
        else
        {
           printf("\n\n\t\t\t\t\tInvalid!\a");
           goto edit invalid;
         }
    }
  else
    {
      printf("\n\n\t\t\t\xB2\xB2 Enter your choice..\n\n\t\t\t\t\0
to try again\n\t\t1 to return to main menu\n\t2 to account
details\n\t\t\t3 to exit\n\n\t\t\t Enter: ");
```

```
scanf("%d",&main_exit);
      system("cls");
      if (main_exit==0)
         {
           edit();
         }
           else if (main_exit==1)
         {
           menu();
         else if(main_exit==2)
           see();
         else if(main_exit==3)
           close();
         }
    }
}
void transact(void)
{
  int choice, test=0;
  FILE *old,*newrec;
  system("color B0");
  old=fopen("record.dat","r");
  newrec=fopen("new.dat","w");
```

```
2");
 printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
 printf("\n\t\t\t\t\t\t
            TRANSECTION");
 printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
printf("\n\n\t\t\t\xB2 Enter the account no. of the customer:
");
 scanf("%d",&transaction.acc no);
 while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc no,add.name,&add.dob.month,&add.dob.day
,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.acc
type,&add.amt,&add.deposit.month,&add.deposit.day,&add.depos
it.year)!=EOF)
{
  if(add.acc no==transaction.acc no)
   { test=1;
```

```
if(strcmpi(add.acc_type,"fixed1")==0||strcmpi(add.acc_type,"fixed2"
)==0||strcmpi(add.acc type,"fixed3")==0)
         printf("\t\t\a\a\a\n\nYOU CANNOT DEPOSIT OR
WITHDRAW CASH IN FIXED ACCOUNTS!!!!!");
         fordelay(100000000);
         system("cls");
         menu();
       }
       printf("\n\n\t\t\t\xB2\xB2\ Do\ you\ want
your choice: ");
       scanf("%d",&choice);
       if (choice==1)
       {
         printf("\n\t\t\t\xB2 Enter the amount you want to
deposit: $ ");
         scanf("%f",&transaction.amt);
         add.amt+=transaction.amt;
         printf("\n\n\t\t\t\t\tLoading..");
         for(i=0;i<=5;i++)
          {
            printf("\xB2");
            fordelay(10000000);
          }
          system("cls");
          fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
```

```
%d/%d/%d\n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,add.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
           printf("\a");
           printf("\n\n\t\t\t\ \xDB Deposited successfully!
\xDB");
        }
        else
        {
          printf("\n\t\t\xB2 Enter the amount you want to
withdraw: $ ");
          scanf("%f",&transaction.amt);
          add.amt-=transaction.amt;
          printf("\n\n\t\t\t\t\t\tLoading..");
          for(i=0;i<=5;i++)
           {
             printf("\xB2");
             fordelay(10000000);
           }
          system("cls");
          fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,add.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
          printf("\a");
          printf("\n\n\t\t\t\t\ \xDB Withdrawn successfully!
\xDB");
        }
```

}

```
else
      {
       fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,add.phone,add.acc type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
 }
 fclose(old);
 fclose(newrec);
 remove("record.dat");
 rename("new.dat","record.dat");
 if(test!=1)
 {
   printf("\n\n\t\tRecord not found!!");
   transact_invalid:
   printf("\n\n\n\t\t\t\t\t\xB2\xB2 Enter your
choice..\n\n\t\t\t\t0 to try again\n\t\t\t1 to view account
details\n\t\t\tt to return to main menu\n\t\tt to
exit\n\t\t\t\tEnter your choice:");
   scanf("%d",&main exit);
   system("cls");
   if (main exit==0)
     transact();
   else if (main exit==1)
     see();
```

```
}
   else if (main_exit==2)
     menu();
   else if (main_exit==3)
     close();
   else
    printf("\n\n\t\t\tInvalid!");
    goto transact_invalid;
 }
 else
  printf("\n\n\t\t\t\t\xB2\xB2 Enter your
choice..\n\n\t\t\t\t0 to try again\n\t\t\t1 to view account
details\n\t\t\tt to return to main menu\n\t\tt to
exit\n\t\t\tEnter your choice:");
  scanf("%d",&main_exit);
  system("cls");
  if (main_exit==0)
     transact();
   else if (main_exit==1)
   {
```

```
see();
   else if (main exit==2)
     menu();
   else if (main_exit==3)
     close();
 }
}
void see(void)
{
  FILE *ptr;
  int test=0,rate;
  int choice;
  float time;
  float intrst;
  system("color F0");
  ptr=fopen("record.dat","r");
```

```
2");
 printf("\n\t\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
 printf("\n\t\t\t\t FOR ACCOUNT DETAILS");
 printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
printf("\n\n\t\t\t\xB2 Do you want to check
by\n\n\t\t\t1.Account no\n\t\t\t2.Name\n\n\t\t\tEnter your
choice:");
 scanf("%d",&choice);
 if (choice==1)
 {
   printf("\n\t\t\t\xB2 Enter the account number:");
   scanf("%d",&check.acc no);
   while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc no,add.name,&add.dob.month,&add.dob.day
,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.acc
type,&add.amt,&add.deposit.month,&add.deposit.day,&add.depos
it.year)!=EOF)
   {
    if(add.acc no==check.acc no)
    {
      system("cls");
```

```
test=1;
```

printf("\n\n\t\t\tAccount NO.:%d\n\t\t\tName:%s \n\t\t\tDOB:%d/%d/%d \n\t\t\tAge:%d \n\t\t\tAddress:%s \n\t\t\tNID No:%s \n\t\t\tPhone number:%.0If \n\t\t\tType Of Account:%s \n\t\t\tAmount deposited:\$ %.2f \n\t\t\tDate Of Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add. dob.day,add.dob.year,add.age,add.address,add.NID,add.phone,

add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.depo
sit.year);

```
if(strcmpi(add.acc_type,"fixed1")==0)
{
```

```
time=1.0;
             rate=9;
             intrst=interest(time,add.amt,rate);
             printf("\n\n\t\t\tYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.y
ear+1);
           }
        else if(strcmpi(add.acc type, "fixed2")==0)
             time=2.0;
             rate=11;
             intrst=interest(time,add.amt,rate);
             printf("\n\n\t\t\tYou will get $.%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.y
ear+2);
           }
        else if(strcmpi(add.acc type, "fixed3")==0)
           {
             time=3.0;
             rate=13:
             intrst=interest(time,add.amt,rate);
             printf("\n\n\t\t\tYou will get $.%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.y
ear+3);
           }
         else if(strcmpi(add.acc_type,"saving")==0)
           {
             time=(1.0/12.0);
             rate=8;
```

```
intrst=interest(time,add.amt,rate);
             printf("\n\n\t\t\tYou will get $.%.2f as interest on %d
of every month",intrst,add.deposit.day);
         else if(strcmpi(add.acc_type,"current")==0)
             printf("\n\n\t\tYou will get no interest\a\a");
       }
    }
  else if (choice==2)
    printf("\n\t\t\t\tEnter the name:");
    scanf("%s",&check.name);
    while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc no,add.name,&add.dob.month,&add.dob.day
,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.acc
type,&add.amt,&add.deposit.month,&add.deposit.day,&add.depos
it.year)!=EOF)
    {
      if(strcmpi(add.name,check.name)==0)
      {
        system("cls");
        test=1;
```

```
2");
      printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
     printf("\n\t\t\t\t\t\t ACCOUNT DETAILS");
      printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
printf("\n\n\t\t\tAccount No.:%d\n\t\t\tName:%s
\n\t\t\tDOB:%d/%d/%d \n\t\t\tAge:%d \n\t\t\tAddress:%s
\n\t\t\tNID No:%s \n\t\t\tPhone number:%.0If \n\t\t\tType Of
Account:%s \n\t\t\tAmount deposited:$%.2f \n\t\t\tDate Of
Deposit:%d/%d/%d\n\n",add.acc no,add.name,add.dob.month,add.
dob.day,add.dob.year,add.age,add.address,add.NID,add.phone,
add.acc type,add.amt,add.deposit.month,add.deposit.day,add.depo
sit.year);
     if(strcmpi(add.acc type,"fixed1")==0)
       {
        time=1.0;
         rate=9;
        intrst=interest(time,add.amt,rate);
         printf("\n\n\t\t\tYou will get $.%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.y
```

```
ear+1);
           }
        else if(strcmpi(add.acc type, "fixed2")==0)
             time=2.0;
             rate=11;
             intrst=interest(time,add.amt,rate);
             printf("\n\n\t\t\tYou will get $.%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.y
ear+2);
           }
        else if(strcmpi(add.acc_type,"fixed3")==0)
             time=3.0;
             rate=13;
             intrst=interest(time,add.amt,rate);
             printf("\n\n\t\tYou will get $.%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.y
ear+3);
           }
         else if(strcmpi(add.acc type, "saving") == 0)
           {
             time=(1.0/12.0);
             rate=8;
             intrst=interest(time,add.amt,rate);
             printf("\n\n\t\t\tYou will get $.%.2f as interest on %d
of every month",intrst,add.deposit.day);
         else if(strcmpi(add.acc_type,"current")==0)
```

```
{
             printf("\n\n\t\t\t\tYou will get no interest\a\a");
       }
    }
  fclose(ptr);
  if(test!=1)
     system("cls");
     printf("\a");
     printf("\n\t\t\t\tRecord not found!!\a\a\a");
     see_invalid:
     printf("\n\n\t\t\xB2\xB2 Enter 0 to try again,1 to return to
main menu and 2 to exit:");
     scanf("%d",&main_exit);
     system("cls");
      if (main exit==1)
           menu();
      else if (main exit==2)
           close();
      else if(main_exit==0)
           see();
```

```
else
          {
           system("cls");
           printf("\n\t\t\t\t\t\n\valid!\a");
           goto see_invalid;
          }
    }
  else
    {
       printf("\n\t\t\ \xB2\xB2\ Enter\ 1\ to\ go\ to\ the\ main\ menu,\ 2
to transection and 0 to exit:");
       scanf("%d",&main_exit);
    if (main_exit==1)
       system("cls");
       menu();
    else if (main_exit==2)
       system("cls");
      transact();
    }
    else
       system("cls");
      close();
}
```

```
void erase(void)
FILE *old,*newrec;
int test=0;
system("color F0");
old=fopen("record.dat","r");
newrec=fopen("new.dat","w");
2");
printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
xDB\xDB\xDB\xDB\xDB\xB2");
printf("\n\t\t\t\t\t\t
          Delete Account");
printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
printf("\n\n\n\t\t\ \xB2\xDB\xDB\ Enter\ the\ account\ no.\ of
the customer you want to delete:");
```

```
scanf("%d",&rem.acc no);
  while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc no,add.name,&add.dob.month,&add.dob.day
,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.acc
type,&add.amt,&add.deposit.month,&add.deposit.day,&add.depos
it.year)!=EOF)
 {
    if(add.acc no!=rem.acc no)
      fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/n",add.acc no,add.name,add.dob.month,add.dob.day,ad
d.dob.year,add.age,add.address,add.NID,add.phone,add.acc_type,ad
d.amt,add.deposit.month,add.deposit.day,add.deposit.year);
    }
    else
      test++;
      printf("\a");
      system("cls");
      printf("\n\n\t\t\t\tRecord deleted successfully!\n");
    }
 }
 fclose(old);
 fclose(newrec);
 remove("record.dat");
 rename("new.dat","record.dat");
 if(test==0)
    {
      system("cls");
```

```
printf("\n\n\t\t\t\tRecord not found!!\a\a\a");
      erase invalid:
        printf("\n\n\t\t\xB2\xB2 Enter 0 to try again,1 to return to
main menu and 2 to exit:");
       scanf("%d",&main_exit);
       system("cls");
         if (main_exit==1)
           menu();
         else if (main_exit==2)
           close();
         else if(main_exit==0)
           erase();
         else
           printf("\nInvalid!\a");
           goto erase invalid;
    }
 else
      printf("\n\t\t\t\xB2\xB2 Enter 1 to go to the main menu
and 0 to exit:");
      scanf("%d",&main_exit);
```

```
system("cls");
   if (main exit==1)
   {
    menu();
   }
   else
   {
    close();
   }
  }
}
void view_list()
{
 FILE *view;
 view=fopen("record.dat","r");
 int test=0;
 system("color B0");
 system("cls");
 printf("\n\n\t\t\t\t
printf("\n\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
xDB\xDB\xDB\xDB\xB2");
 printf("\n\t\t\t\t\
ALL CUSTOMER'S INFORMATION");
```

```
printf("\n\t\t\t\xB2\xDB\xDB\xDB\xDB\t\t\t\t\t\t\t
\xDB\xDB\xDB\xDB\xB2");
 printf("\n\t\t\t\t
printf("\n\n\t\t ACC. NO.\t\t\tNAME\t\tADDRESS\t\t\t
PHONE\n");
 while(fscanf(view,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc no,add.name,&add.dob.month,&add.dob.day
,&add.dob.year,&add.age,add.address,add.NID,&add.phone,add.acc
type,&add.amt,&add.deposit.month,&add.deposit.day,&add.depos
it.year)!=EOF)
  {
    printf("\n\t\t\%10d\t\t %10s\t\t
%10s\t\t\t%0.0lf",add.acc no,add.name,add.address,add.phone);
    test++;
  }
 fclose(view);
 if (test==0)
   {
    system("cls");
    printf("\n\n\t\t\t\tNO RECORDS!!\n");
   }
 view list invalid:
  printf("\n\n\t\t\t\ \xB2\xB2 Enter 1 to go to the main menu
and 0 to exit:");
```

```
scanf("%d",&main exit);
   system("cls");
   if (main exit==1)
    menu();
   else if(main exit==0)
    close();
   else
   {
    printf("\nInvalid!\a");
    goto view list invalid;
  }
}
void close(void)
 system("color F0");
 printf("\n\n\t\t\t
printf("\n\t\t\ \xDB
                  \t \t \t \xDB");
 printf("\n\t\t\t
                    This C Project is developed by...
             \xDB
                                           \t
\DB");
 printf("\n\t\t\t
                  \t \t \t \xDB");
             \xDB
 printf("\n\t\t\t
             \xDB [ Team 9-Intake 47-Section 2--Dept. of CSE
BUBT ] \xDB");
 printf("\n\t\t\t
             \xDB
                  \t \t \t \xDB");
 printf("\n\t\t\t
                  1. Md Ashikur Islam
             \xDB
                                 -\tld-20215103086
\DB");
 printf("\n\t\t\t
            \xDB
                  \t \t \t \xDB");
```

```
printf("\n\t\t\t
        \DB
          2. Tahmid Jawwad
                    -\tld-20215103096
\xDB");
printf("\n\t\t\t
        \xDB
           \t\t\t\t\t\t\t
printf("\n\t\t\t
          3. Md Ariful Islam Rifat -\tld-20215103099
        \xDB
\xDB");
printf("\n\t\t\t
       \xDB
           \t \t \t \xDB");
printf("\n\t\t\t
           \t\t\t\t\t\t\t
        \xDB
printf("\n\t\t\t
        \xDB
            <THANKS FOR USING THIS SYSTEM>
\xDB");
printf("\n\t\t\t
       \xDB
             \t\t\t\t\t\t \xDB");
printf("\n\t\t\t
getch();
void menu(void)
{
int choice;
system("cls");
system("color OB");
printf("\n\n\t\t
printf("\n\t
```

```
DB\xDB\xDB\xDB\xB2\xB2 WELCOME TO
DB\xDB\xDB\xDB\xB2");
printf("\n\t\ \xB2\xDB\xDB\t\t\t\t\t\t\t\t\ \xDB\xDB\xB2");
printf("\n\t\t \xB2\xDB\xDB\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\xDB\xDB\xB2");
\xDB\t\t\xDB\xDB\xDB\xB2");
printf("\n\t\t \xB2\xDB\xDB\t\t\t \xDB\xDB \xDB\xDB \xDB\xDB
\xDB\xDB \xDB\xDB \xDB\xDB \xDB\xDB
\xDB\t\t\xDB\xDB\xB2");
\xDB\xDB\xDB\xDB\xDB\xDB\xDB\xDB
xDB\xDB\xDB\t\t\t \xDB\xDB\xB2");
printf("\n\t\t \xB2\xDB\xDB\xDB\xDB\xDB\xDB\xDB\xDB
\xDB\xDB \xDB\xDB \xDB\xDB \xDB\xDB
\xDB\t\t\xDB\xDB\xDB\xB2");
\xDB\xDB \xDB\xDB \xDB\xDB\xDB \xDB\xDB
xDB\t\t\xDB\xDB\xB2");
printf("\n\t\t \xB2\xDB\xDB\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\xDB\xDB\xB2");
printf("\n\t\t
DB\xDB\xB2\xB2 BANK MAIN MENU
```

```
DB\xDB\xDB\xB2");
printf("\n\t\t
white();
time_t now;
time(&now);
printf("\n\n\t\t\t\t\t
        %s",ctime(&now));
B\xDB\xDB\xDB");
printf("\n\t\t\t\xDB
                 xDB\n");
printf("\t\t\t\xDB \xDB 1.Create new account\t\t\t
                   \xDB");
printf("\n\t\t\t\t\t\t
            \xDB");
printf("\n\t\t\t\xDB\xDB 2.Update information of existing
account\t
    \xDB");
printf("\n\t\t\t\t\t\t\t
            \xDB");
printf("\n\t\t\t\xDB \xDB 3.For Transactions\t\t\t
                   \xDB");
```

```
printf("\n\t\t\t\xDB\t\t\t\t\t\t\
xDB");
 printf("\n\t\t\t\xDB \xDB 4.Check the details of account\t\t
\xDB");
 printf("\n\t\t\t\t\xDB\t\t\t\t\t\t
                          \xDB");
 printf("\n\t\t\t\xDB \xDB 5.Removing existing account\t\t
\DB");
                          \xDB");
 printf("\n\t\t\t\t\xDB\t\t\t\t\t\t
 printf("\n\t\t\t\xDB \xDB 6.View customer's list\t\t\t
                                          \DB");
 printf("\n\t\t\t\t\xDB\t\t\t\t\t\t
                          \xDB");
 printf("\n\t\t\t\xDB \xDB 7.Exit\t\t\t\t\t
                                 \DB");
 printf("\n\t\t\t\xDB\t\t\t\t\t\t
                          \xDB");
B\xDB\xDB\xDB");
 printf("\n\n\t\t\t\t\t\xB2\xDB\xDB Enter your choice: ");
 scanf("%d",&choice);
 system("cls");
 switch(choice)
 {
   case 1:
    new_acc();
    break;
   case 2:
    edit();
```

```
break;
    case 3:
      transact();
      break;
    case 4:
      see();
      break;
    case 5:
      erase();
      break;
    case 6:
      view_list();
      break;
    case 7:
      close();
      break;
    default:
      red ();
      printf("\n\n\t\t\t);
      printf("\n\t\t\tPress any key");
      getch();
      menu();
 }
}
void Password(void)
{
  char
```

```
ch,pass[20],user[20],username[20]="admin",password[20]="2020";
 int i=0;
 system("color F0");
  Username and Password to login...\xDB\xDB\xDB\xDB\xB2");
  printf("\n\n\t\t\t\t\t\xB2\xDB\xDB\xDB Username : ");
 scanf("%s",user);
 printf("\n\t\t\t\t\t\xB2\xDB\xDB\xDB Password : ");
 while(ch!=13)
  ch=getch();
  if(ch!=13 && ch!=8)
    putch('*');
    pass[i] = ch;
    i++;
   else if(ch==8)
     if(i>0)
     {
       i--;
       printf("\b \b");
   }
 pass[i] = '\0';
```

```
if (strcmp(username, user) == 0 && strcmp(password, pass) == 0)
      printf("\n\n\t\t\t\t \xDB Username & Password Match!
xDB\n\t\t\t\t\t\t\t
      for(i=0;i<=10;i++)
        fordelay(10000000);
        printf("\xDB");
       }
        system("cls");
        menu();
    }
  else
    {
      printf("\a");
      printf("\n\n\t\t\t\tWrong Username or Password!!");
      login try:
      printf("\n\n\t\t\t\tEnter 1 to try again and 0 to exit: ");
      scanf("%d",&main exit);
      if (main exit==1)
          {
             system("cls");
             main();
           }
      else if (main_exit==0)
          {
             system("cls");
             close();
          }
```

```
else
   {
    printf("\n\n\t\t\t\tInvalid!");
    fordelay(100000000);
    system("cls");
    goto login_try;
   }
 }
 getch();
}
int main()
system("color F0");
printf("\n\t\t
DB\xDB\xDB\xDB\xDB\xDB");
printf("\n\t
DB\xDB\xDB\xDB\xDB\xDB");
printf("\n\t
```

```
TO
printf("\n\t\t
B2 BANK
DB");
printf("\n\t\t
DB\xDB\xDB\xB2 MANAGEMENT SYSTEM
DB\xDB\xDB\xDB");
printf("\n\t\t
printf("\n\t\t \xB2\xDB\xDB\xDB\xDB\xDB\xDB\xDB\xDB
\DB\xDB\xDB\xDB\xDB\xDB\xDB\xDB\
xDB\xDB\xDB\xDB\xB2";
```

```
printf("\n\t\ \xB2\xDB\xDB\xDB\xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \x
t\t\t\t\t\xB2\xDB \xB2\xDB \xB2\xDB \xDB\xDB\xB2");
\xDB\xDB \xDB\xDB \xDB\t\xB2\xDB \xB2\xDB
xDB\xDB\xDB\xB2");
\xDB\xDB\xDB \xDB\xDB \xDB\xDB \xDB\xDB \xDB\xDB
\DB\xDB \xDB\t\xB2\xDB \xB2\xDB \xB2\xDB
xDB\xDB\xDB\xB2";
\xDB\xDB \xDB\xDB\xDB\t\t\xB2\xDB \xB2\xDB \xB2\xDB
xDB\xDB\xDB\xB2";
\xDB\xDB\xDB \xDB\xDB \xDB\xDB \xDB\xDB \xDB\xDB
\DB\xDB \xDB\t\xB2\xDB \xB2\xDB \xB2\xDB
xDB\xDB\xDB\xB2";
printf("\n\t\ \xB2\xDB\xDB\xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \x
\xDB\xDB\xDB\xDB \xDB\xDB \xDB\xDB
\xDB\xDB\xDB\xDB \xDB\xDB \xDB\t\xB2\xDB
xB2\xDB \xDB\xDB\xDB\xB2");
printf("\n\t\ \xB2\xDB\xDB\xDB\xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \xDB\xB2\ \x
t\t\t\t\t\xB2\xDB \xB2\xDB \xB2\xDB \xDB\xDB\xB2");
xDB\xDB\xDB\xDB\xB2");
printf("\n\t\t
```

```
DB\xDB\xDB\xDB\xDB\xDB\xDB\xDB\xB2");
printf("\n\t\t
printf("\n\t\t
```

```
Password();
getch();
}
```

4.5-Testing

Screenshots after running the code:

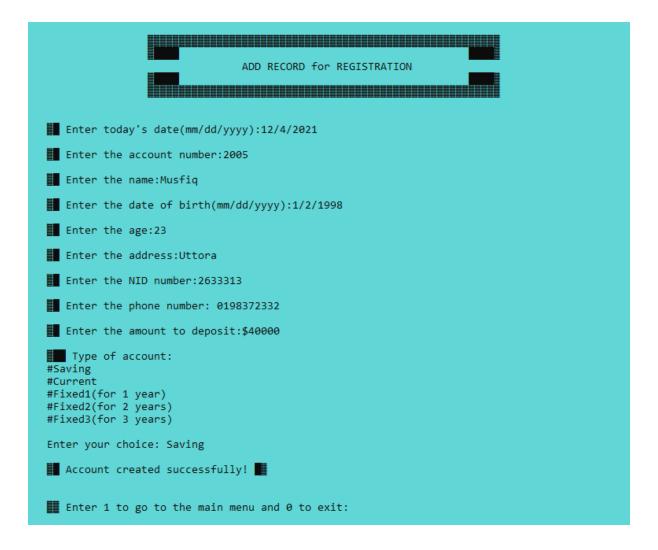
Login page:



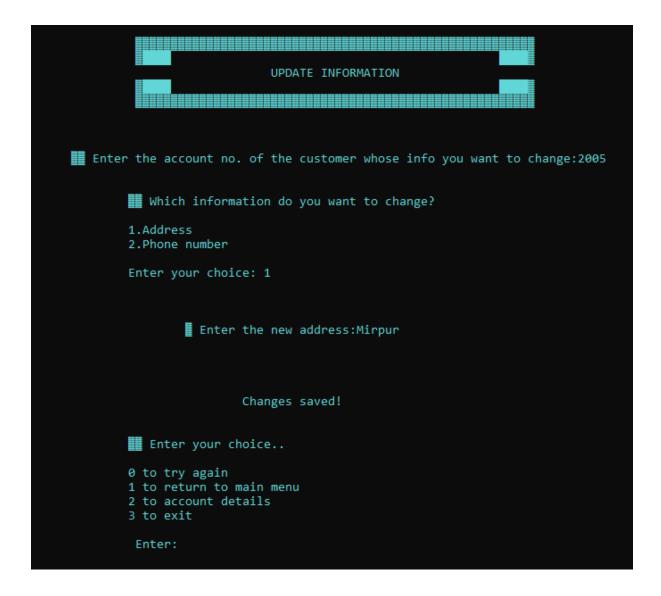
Main menu:



Registration:

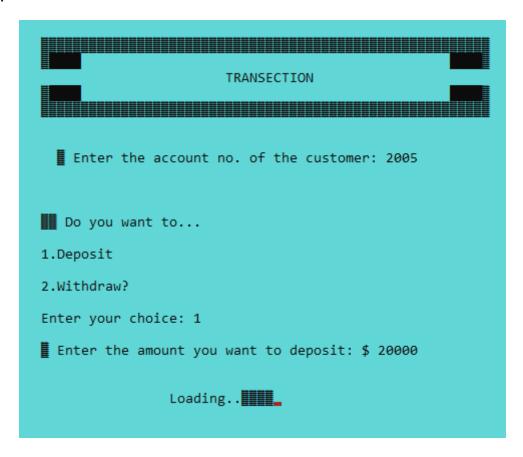


Update information:

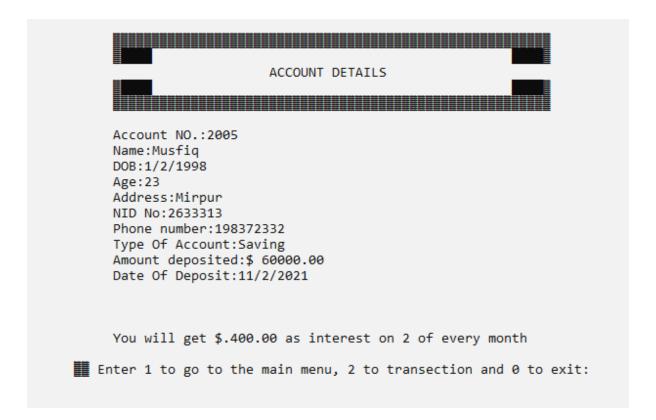


Transactions:

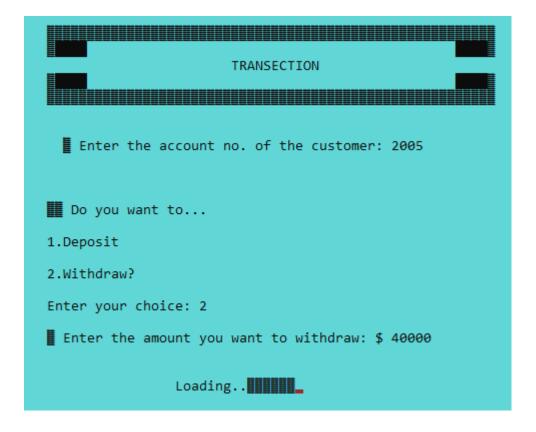
Deposit:

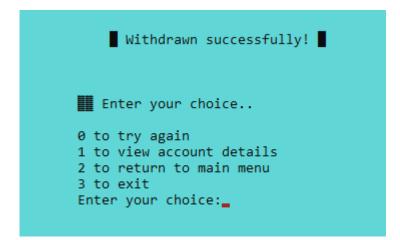






Withdraw:





ACCOUNT DETAILS

Account NO.:2005 Name:Musfiq DOB:1/2/1998 Age:23

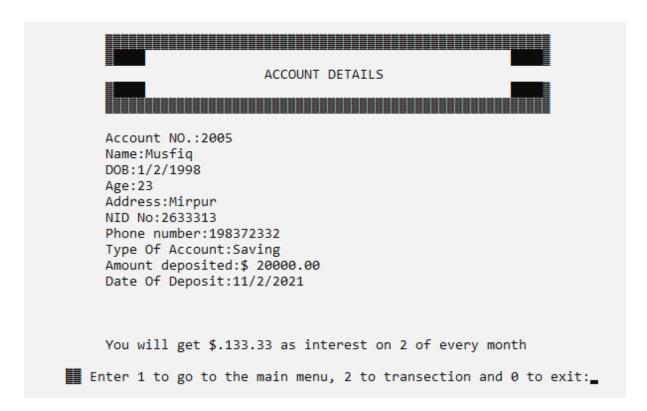
Address:Mirpur NID No:2633313

Phone number:198372332 Type Of Account:Saving Amount deposited:\$ 20000.00 Date Of Deposit:11/2/2021

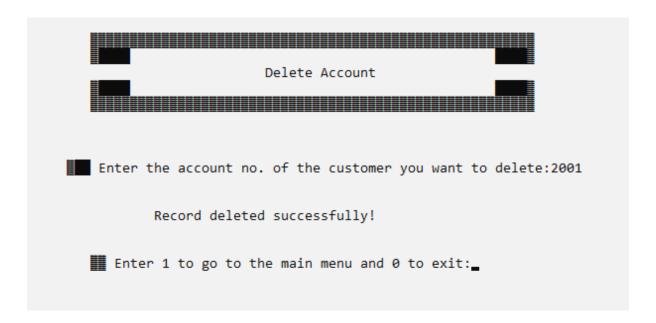
You will get \$.133.33 as interest on 2 of every month

Enter 1 to go to the main menu, 2 to transection and 0 to exit:

Account details:



Delete account:



All customer's information:



Close:

```
This C Project is developed by...

[ Team 9-Intake 47-Section 2--Dept. of CSE BUBT ]

1. Md Ashikur Islam - Id-20215103086

2. Tahmid Jawwad - Id-20215103096

3. Md Ariful Islam Rifat - Id-20215103099

<THANKS FOR USING THIS SYSTEM>
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5. IMPACTS, ETHICS, AND CHALLENGES

In system implementation, user training is crucial for minimizing resistance to change and giving the new system a chance to prove its worth. Training aids such as user-friendly manuals, a data dictionary and job performance aids that communicate information about the new system and help screens. Provide the user with a good start on the new system.

5.1 Impacts (on Society)

Many of us lead busy lives. Some of us are up before the crack of dawn, getting ourselves prepared so we can in turn get our families ready for the day. We rush to work, rush to get the kids to school, and at the end of the day we rush home only to brace ourselves for the next day. After a hectic day, the last thing you want to do is spend time waiting in line at the bank, or even the post office.

5.2 Ethics

Bank is the place where customers feel the sense of safety for their property. In the bank, customers deposit and withdraw their money. Transaction of money also is a part where customer takes shelter of the bank. Now to keep the belief and trust of customers, there is the positive need for management of the bank, which can handle all this with comfort and ease. Smooth and efficient management affects the satisfaction of the customers and staff members, indirectly. And of course, it encourages management committee in taking some needed decision for future enhancement of the bank.

5.3 Challenges

Maintenance activities begin where conversion leaves off. Maintenance is handled by same planning and control used in a formal system project. Doc- umentation is as much a part of maintenance as it is of system development. The source program and written procedures for the system are acquired from the programming banking. Program changes are then tested and submitted to the user for approval. Once apOroved, the modified documentation is filed with the banking management and a project completion notice is sent to the user, signaling the termination of the project.

6. CONCLUSION

6.1 Future Works and Limitations

The "Banking Online System is a big and ambitious project. I am thankful for being provided this great opportunity to work on it. As already mentioned, this project has gone through extensive research work. On the basis of the research work, we have successfully designed and implemented banking online System. To know what the future of online banking looks like, it's probably worth looking at the present – online banking isn't new. When you think of online banking, you probably think about a computer (either a desktop or laptop), a three or four step security process and then an interface that lets you view the balance of your various bank accounts and credit cards, whilst permitting you to transfer money and pay bills. This project is developed to nurture the needs of a user in a banking sector by embedding all the tasks of transactions taking place in a bank. Future version of this project will still be much enhanced than the current version. Our project is only a humble venture to satisfy the needs in an Institution. Several user friendly coding have also adopted. The main focus of this project is to easier way of banking.

References

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THANK YOU