

KARNATAK LAW SOCIETY'S

GOGTE INSTITUTE OF TECHNOLOGY

UDYAMBAG, BELAGAVI-590008

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

(APPROVED BY AICTE, NEW DELHI)

Department of Electronics and Communication

2021-2022



Course Activity Report on

Mini Project in C Bank Management System(18EC45)

Submitted in the partial fulfilment for the award of the degree of

**Bachelor of
Engineering In**

Electronics and Communication Engineering

Submitted by

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CERTIFICATE

Certified that the course activity entitled **BANK MANAGEMENT SYSTEM IN C** done at KLS Gogte Institute of Technology is a bonafide work carried out by, Ms.

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In partial fulfilment for the award of Bachelor of Engineering in

Electronics and Communication of the Visvesvaraya Technological University, Belagavi during the year 2019- 2020

It is certified that all corrections/suggestions indicated have been incorporated in the report. The activity report has been approved as it satisfies the academic requirements in respect of course activity prescribed for the said Degree.

	Name of the student	USN	Marks	Signature
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Date:

MINI PROJECT ON

C BANK MANAGEMENT SYSTEM

1. INTRODUCTION

This project is focused on customer account services in bank, so it is named “**Bank Management System**”.

Bank Management System is based on a concept to generate and maintain daily payment transactions with the customer's account. Before stepping into the main system a user has to pass through login system to get access, then only he/she can use all the features of the system which includes Adding, Removing, Updating and viewing records, withdraw and deposit cash feature, check details of existing customers.

Talking about the features of Bank Management System, while entering customer's record he/she has to provide the current date, account number, name, date of birth, age, address, phone number, the amount deposited while creating an account and select account type. Under this, there are five types of account, Saving, Current, Fixed(for 1 year), Fixed(for 2 years), Fixed(for 3 years). But while updating customer's information from existing account, he/she can only change address and phone number. There are two methods to check a user's account in detail i.e by Account number or by Account name. The other listing record displays customer's name with an Account number, address and contact detail.

Transaction through a bank is either done by Depositing or Withdrawing amounts. So here the user can use both of the features easily. Whenever a user wants to withdraw or deposit some amount of money he/she has to provide Amount then the system automatically maintain his/her Transaction record with total bank balance. And another thing is that while checking a customer's account in detail the system will display a bank interest information. This system calculates interest per month and displays to the user.

Overall, with this project, you can perform banking activities like in a **REAL bank**.

Bank management mini project in C is a console application without graphics. It is compiled in **Code: Blocks** with gcc compiler.

2. OBJECTIVE: -

- Creating new account – To create a new account
- Cash Deposit – To Deposit some amount in newly created account
- Cash withdrawal – To Withdraw some amount from your account
- Display Account information – It will display all information of the existing accounts
- Clearing the output screen and display available options

3. THEORY: -

Functions used in Bank Management System:

The source code for Customer Account Bank Management System is relatively easy to understand. We 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:-

1. **menu ()** –

This function displays the menu or welcome screen to perform different banking

2. **new_acc ()** –

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.

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. **edit ()** –

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

5. **transact ()** –

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

6. **erase ()** –

This function is for deleting a customer account.

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.

In this bank management system project in C, file handling has been used for almost all functions. File has been used to store data related to new account, transaction, editing of account information and viewing of account information. we haven't used file handling for the menu, interest calculation and password.

4. METHODOLOGY:

STEP 1: We first create a structure to input date whenever necessary.

Structure: A structure is a user defined data type in C/C++. A structure creates a data type that can be used to group items of possibly different types into a single type.

STEP 2: Create another structure to input name, age, address and other necessary details

```
8 struct date{
9     int month,day,year;
10 };

11 struct{
12     char name[60];
13     int acc_no,age;
14     char address[60];
15     char citizenship[15];
16     double phone;
17     char acc_type[10];
18     float amt;
19     struct date dob;
20     struct date deposit;
21     struct date withdraw;
22 }add,upd,check,rem,transaction;
```

STEP 3: create function to calculate the interest. And a for delay function.

```
24 float interest(float t,float amount,int rate)
25 {
26     float SI;
27     SI=(rate*t*amount)/100.0;
28     return (SI);
29 }
30
31 void fordelay(int j)
32 {
33     int i,k;
34     for(i=0;i<j;i++)
35         k=i;
```

STEP 4: Similarly create functions to create new account, to view the list of people registered, Edit function, Transaction and close function.

STEP 5: in the main function, we will first ask the user to enter the pre-defined password, then provide him with various options to go about the task that he/she wants to perform.

The various choices are:

1. Create a new account
2. Updating the existing information
3. Transaction
4. Check details of existing account
5. Removing existing account
6. View customers list
7. Exit

STEP 6: Based on the choice the person makes, the specific functions are called

5. ADVANTAGES

- Helped us understand the usage of basic concepts of C language like, structures and pointers.
- Provides the customer with various options to create new account or to edit their transaction.
- Function's like a real bank.

6. OUTPUT:

1. CREATE A NEW ACCOUNT

```
Enter the password to login:SHIKHA
Password Match!
LOADING.....CUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEMWELCOME TO THE MAIN MENU

0.Create new account
0.Update information of existing account
▼.For transactions
+Check the details of existing account
+Removing existing account
+View customer's list
.Exit

Enter your choice:1
```

```
Enter your choice:1
  ADD RECORD

Enter today's date(mm/dd/yyyy):6/11/2021
Enter the account number:123123123
Enter the name:Shashank
Enter the date of birth(mm/dd/yyyy):12/8/2000
Enter the age:21
Enter the address:Bhagyanagar belgaum
Enter the citizenship number:
Enter the phone number: 9480039345
Enter the amount to deposit:$100

Type of account:
#Saving
#Current
#Fixed1(for 1 year)
#Fixed2(for 2 years)
#Fixed3(for 3 years)

Enter your choice:1

Account created successfully!
```

2. EDITING THE INFORMATION:

```
0.Create new account
0.Update information of existing account
7.For transactions
+Check the details of existing account
+Removing existing account
+View customer's list
.Exit

Enter your choice:2

Enter the account no. of the customer whose info you want to change:123123123

Which information do you want to change?
1.Address
2.Phone

Enter your choice(1 for address and 2 for phone):2

Changes saved!

Enter 1 to go to the main menu and 0 to exit:
```

FOR TRANSACTION'S:

CUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEMWELCOME TO THE MAIN MENU

- ⓪.Create new account
- ⓪.Update information of existing account
- ♥.For transactions
- ♦.Check the details of existing account
- ♣.Removing existing account
- ♠.View customer's list
- .Exit

Enter your choice:3

Enter the account no. of the customer:123123123

Do you want to

- 1.Deposit
- 2.Withdraw?

Enter your choice(1 for deposit and 2 for withdraw):1

Enter the amount you want to deposit:\$ 10000

Deposited successfully!

Enter 1 to go to the main menu and 0 to exit:

CHECK THE DETAILS OF AN ALREADY EXISTING ACCOUNT:

CUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEMWELCOME TO THE MAIN MENU

- 0.Create new account
- 0.Update information of existing account
- ▼.For transactions
- ◆.Check the details of existing account
- ♣.Removing existing account
- ♣.View customer's list
- .Exit

Enter your choice:4

Do you want to check by

1.Account no

2.Name

Enter your choice:1

Enter the account number:123123123

Account NO.:123123123

Name:Shashank

DOB:12/8/2000

Age:21

Address:Bhagyanagar

Citizenship No:belgaum

Phone number:9480078365

Type Of Account:1

Amount deposited:\$ 10100.00

Date Of Deposit:6/11/2021

Enter 1 to go to the main menu and 0 to exit:▯

VIEWING THE CUSTOMER LIST:

```
CUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEMWELCOME TO THE MAIN MENU

0.Create new account
0.Update information of existing account
▼.For transactions
◆.Check the details of existing account
◆.Removing existing account
◆.View customer's list
.Exit

Enter your choice:6

ACC. NO.      NAME      ADDRESS      PHONE
12323212      Shikha      Shetgeri      9480052684
123123123      Shashank      Bhagyanagar      9480078365

Enter 1 to go to the main menu and 0 to exit:

```

DELETING AN ACCOUNT:

```
CUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEMWELCOME TO THE MAIN MENU

0.Create new account
0.Update information of existing account
▼.For transactions
◆.Check the details of existing account
◆.Removing existing account
◆.View customer's list
.Exit

Enter your choice:5
Enter the account no. of the customer you want to delete:123123123

Record deleted successfully!

Enter 1 to go to the main menu and 0 to exit:

```

7. CONCLUSION: -

Developed the Banking management system using the C language, and analysed the concepts used to do it.
demonstrated the same on CODE BLOCKS.

8. REFERENCES:-

1. www.google.com
2. <https://www.geeksforgeeks.org>