

# **DATA STRUCTURE PROJECT: REPORT**

## **PROJECT TITLE:-**

***Banking System***

## **SUBMITTED BY:-**

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## **ABSTRACT:-**

*Here, we are working on the banking system which works on an array of structures concepts. Nowadays everybody is aware of the banking system and during this corona time the online banking has increased rapidly. Online banking is easy when compared to offline banking. We are building a sample code to show how the banking system works.*

*The aim of the project is to build an easy way for online banking which helps all kinds of people to understand online banking.*

## **INTRODUCTION:-**

*Banking system is a simple code using structures and arrays. In this banking system the end user can create an account by giving his basic information to the computer. Here he can create many accounts by giving different account numbers. The program allows the end user to perform basic bank operations like creating an account, searching the account, depositing money into the account and also withdrawing the money from the account. Banking system is very easy to learn and understand. We can perform the banking operations easily in this program.*

## **PROPOSED METHODOLOGY:-**

*The program has 5 modules:*

*(i) Display of all records*

*(ii) Search a account*

*(iii) Deposit amount*

*(iv) Withdraw amount*

*(v) Exit*

*According to the choice of end user, its respective functionalities will be Unlocked.*

***Functionalities are listed below:***

***(i) Display of all records:***

- Display account number***
- Display account holder name***
- Display account holder age***
- Display account holder phno***
- Display account balance***
- Back to main menu***

***(ii)Search a account:***

- Enter account number***
- Display account number***
- Display account holder name***
- Display account holder age***
- Display account holder phno***
- Display account balance***
- Back to main menu***

***(iii)Deposit amount:***

- Enter account number***
- Enter amount to deposit***
- Back to main menu***

***(iv)Withdraw amount:***

- Enter account number***
- Enter amount to withdraw***
- Back to main menu***

***(v)Exit***

***Step 1 : START***

***Step 2 : Enter the no.of customer records you want to enter***

***Step 3 : Enter account number, account holder name, age and phone number***

***Step 4 : Ask the user to choose any one option.***

***(i) Display of all records***

***(ii) Search a account***

***(iii) Deposit amount***

***(iv) Withdraw amount***

***(v) Exit***

***Step 5 : If the user choose option(i) then display all the records of the account holder***

***Step 6 : If the user chooses option(ii) then ask the user to enter the account number he wants to search. If the user enters the correct account number then display all the records of that particular account number.***

***Step 7 : If the user chooses option(iii) then ask the user to enter the account number he wants to deposit the amount. If the user enters the correct account number then ask the user to enter the amount he wants to deposit in the account.***

***Step 8 : If the user chooses option(iv) then ask the user to enter the account number he wants to withdraw the amount. If the user enters the correct account number then ask the user to enter the amount he wants to withdraw in the account.***

***Step 9: If the user chooses option(v) then exit from the portal***

***Step 10 : Stop***

## **SOFTWARE REQUIREMENTS:-**

- 1) **Programming language: C language.**
- 2) **C compiler: Online GDB Compiler**
- 3) **IDE: Code blocks.**

## **HARDWARE REQUIREMENTS:-**

- 1) **OS: Windows XP or higher**
- 2) **Hardware: Min 128MB of RAM or higher**

## **RESULT&DISCUSSION:-**

*The user of the program can start the program by entering the number of details i want to enter and later on he can enter their name, account number, age and phone number. After entering he is given 5 options in that if he chooses option 1. User can see all the account holder details in the end screen. If he chooses option 2 he can search for a specified account holder details rather than seeing all account details. If he chooses option 3 he can deposit any amount of money into a specified account. If the user chooses option 4 he can withdraw money from the account. And the amount withdrawn should be less than the amount or should be equal to the amount. If the user chooses option 5 he will exit from the program*

## **SCREEN SHOT:-**

*(i)*

```
*****
                                     Banking System
*****
```

Number of customer records you want to enter? : 4

Enter data for Record #1

Enter the Account Number : 134679

Enter Name of the Account Holder : Lohith

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9440101748

Enter data for Record #2

Enter the Account Number : 672398

Enter Name of the Account Holder : Mohith

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9491023879

Enter data for Record #3

Enter the Account Number : 839256

Enter Name of the Account Holder : Manjuu

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9103459129

Enter data for Record #4

Enter the Account Number : 216347

Enter Name of the Account Holder : Mahesh

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9652789149

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Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

\*\*\*\*\*

Enter choice(0-4) : 1

Account no	Account Holder Name	Account Holder Age	Account holder phno	Account Balance
134679	Lohith	18	850167156	0
672398	Mohith	18	901089287	0
839256	Manjuu	18	513524537	0

216347 Mahesh 18 1062854557 0

```
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 2
Enter account number you want to search : 134679
Account Number : 134679
Name of the account holder : Lohith
Account Holder Age : 18
Account Holder phno : 850167156
Balance in the account : 0
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 3
```

Windows Ink Workspace

```
Enter account number to deposit money : 134679
Enter the amount you want to deposit : 10000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 3
Enter account number to deposit money : 672398
Enter the amount you want to deposit : 10000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 3
Enter account number to deposit money : 839256
Enter the amount you want to deposit : 10000
*****
Banking System Menu :
```

```
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 3
Enter account number to deposit money : 216347
Enter the amount you want to deposit : 10000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 134679
Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
```

```
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 672398
Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 839256
Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 216347
```



```

Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 1

```

Account no	Account Holder Name	Account Holder Age	Account holder phno	Account Balance
134679	Lohith	18	850167156	5000
672398	Mohith	18	901089287	5000
839256	Manjuu	18	513524537	5000
216347	Mahesh	18	1062854557	5000

```

*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 0

```

## **CONCLUSION:-**

*This program is built to increase the efficiency of the banking system. The end user who ever uses this program will feel easy to understand and from this project we got a good idea about c language and data structures*

## **REFERENCES:-**

<https://www.geeksforgeeks.org/menu-driven-program-for-bank-management-system/>

*Shared PPT Slides and books on c programming*