

MINI PROJECT

BANK MANAGEMENT SYSTEM

INTRODUCTION:

Bank is the place where customer feel the sense of safety for their property. In the bank, customers deposit and withdraw their money. Transaction of money is also 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. Now a days, managing a bank is tedious job upto certain limit. So software that reduces the work is essential. Also today's world is genuine computer world and it is getting faster and faster day-by-day. Thus considering above necessities, the software for bank management has become necessary which would be useful in managing the bank more efficiently.

The bank management system is a application for maintaining a person's account in a bank. The system provide 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 following presentation provides the specification of the system.

Methods:

1.open()

Opens a new account for the user by accepting input such as account number, name and minimum balance.

2.search()

Enables to search for the details of the given account number. Displays only one account at a time.

3.deposit()

Provides options to deposit amount from the given account number.

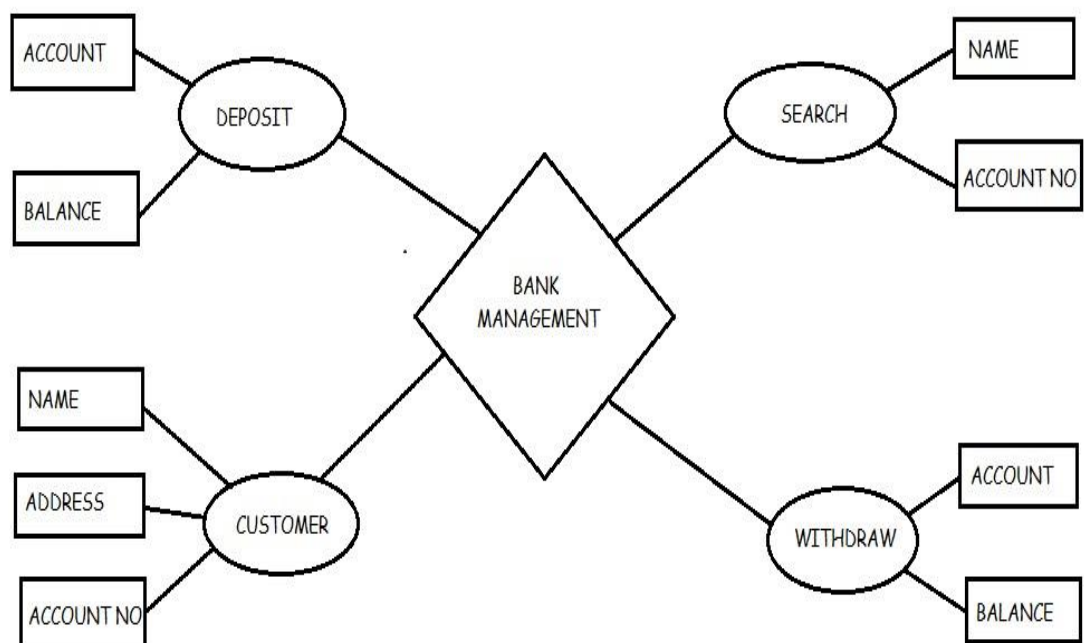
4.withdraw()

Provides options to withdraw amount from the given account number.

5.display()

Displays the list of all account details comprising of account number, name and balance amount.

Architectural diagram:



SOURCE CODE:

```
import java.util.Scanner; class BankDetails
{
    private String accno;
    private String name;
```

```
private String acc_type;
private long balance;
Scanner sc = new Scanner(System.in);
public void openAccount()
{
    System.out.print("Enter Account No: ");
    accno = sc.next();
    System.out.print("Enter Account type: ");
    acc_type = sc.next();
    System.out.print("Enter Name: ");
    name = sc.next();
    System.out.print("Enter Balance: ");
    balance = sc.nextLong();
}
//method to display account details
public void showAccount()
{
    System.out.println("Name of account holder: " + name);
    System.out.println("Account no.: " + accno);
    System.out.println("Account type: " + acc_type);
    System.out.println("Balance: " + balance);
}
//method to deposit money
public void deposit()
{
    long amt;
    System.out.println("Enter the amount you want to deposit: ");
```

```
        amt = sc.nextLong();
        balance = balance + amt;
    }
    //method to withdraw money
    public void withdrawal()
    {
        long amt;
        System.out.println("Enter the amount you want to withdraw: ");
        amt = sc.nextLong();
        if (balance >= amt) {
            balance = balance - amt;
            System.out.println("Balance after withdrawal: " + balance);
        }
        else {
            System.out.println("Your balance is less than " + amt + "\tTransaction
failed...!!" );
        }
    }
    //method to search an account number
    public boolean search(String ac_no)
    {
        if (accno.equals(ac_no))
        {
            showAccount();
            return (true);
        }
        return (false);
    }
}
```

```

    }
}

public class BankingApp
{
    public static void main(String arg[])
    {
        Scanner sc = new Scanner(System.in); //create initial accounts
        System.out.print("How many number of customers do you want to input? ");
        int n = sc.nextInt();
        BankDetails C[] = new BankDetails[n];
        for (int i = 0; i < C.length; i++)
        {
            C[i] = new BankDetails();
            C[i].openAccount();
        }
        // loop runs until number 5 is not pressed to exit
        int ch;
        do {
            System.out.println("\n ***Banking System Application***");
            System.out.println("1. Display all account details \n 2. Search by Account number\n 3. Deposit the amount \n 4. Withdraw the amount \n 5.Exit ");
            System.out.println("Enter your choice: ");
            ch = sc.nextInt();
            switch (ch) {
                case 1:
                    for (int i = 0; i < C.length; i++) {

```

```
        C[i].showAccount();  
    }  
    break;
```

case 2:

```
    System.out.print("Enter account no. you want to search: ");  
    String ac_no = sc.next();  
    boolean found = false;  
    for (int i = 0; i < C.length; i++) {  
        found = C[i].search(ac_no);  
        if (found) {  
            break;  
        }  
    }  
    if (!found) {  
        System.out.println("Search failed! Account doesn't exist..!!");  
    }  
    break;
```

case 3:

```
    System.out.print("Enter Account no. : ");  
    ac_no = sc.next();  
    found = false;  
    for (int i = 0; i < C.length; i++) {  
        found = C[i].search(ac_no);  
        if (found) {  
            C[i].deposit();  
            break;  
        }  
    }
```

```

    }
    if (!found){
        System.out.println("Search failed! Account doesn't exist..!!");
    }
    break;
case 4:
    System.out.print("Enter Account No : ");
    ac_no = sc.next();
    found = false;
    for (int i = 0; i < C.length; i++) {
        found = C[i].search(ac_no);
        if (found) {
            C[i].withdrawal();
            break;
        }
    }
    if (!found) {
        System.out.println("Search failed! Account doesn't exist..!!");
    }
    break;
case 5:
    System.out.println("See you soon...");

    break;

}
}
while (ch!=5);

```

```
}  
  
}
```

OUTPUT:

```
C:\Users\Anurati\Desktop\abcDemo>javac BankingApp.java  
  
C:\Users\Anurati\Desktop\abcDemo>java BankingApp  
How many number of customers do you want to input? 2  
Enter Account No: 111  
Enter Account type: Savings  
Enter Name: Raman  
Enter Balance: 56900  
Enter Account No: 121  
Enter Account type: Current  
Enter Name: Piyush  
Enter Balance: 20000  
  
***Banking Application System***  
1. Display all account details  
2. Search by Account number  
3. Deposit the amount  
4. Withdraw the amount  
5.Exit  
Enter your choice:  
1  
Name of account holder: Raman  
Account no.: 111  
Account type: Savings  
Balance: 56900  
Name of account holder: Piyush  
Account no.: 121  
Account type: Current  
Balance: 20000
```



```
Enter your choice:
2
Enter account no. you want to search: 111
Name of account holder: Raman
Account no.: 111
Account type: Savings
Balance: 56900
```

```
***Banking Application System***
1. Display all account details
2. Search by Account number
3. Deposit the amount
4. Withdraw the amount
5.Exit
```

```
Enter your choice:
3
Enter Account no. : 121
Name of account holder: Piyush
Account no.: 121
Account type: Current
Balance: 20000
Enter the amount you want to deposit:
5000
```

```
***Banking Application System***
1. Display all account details
2. Search by Account number
3. Deposit the amount
4. Withdraw the amount
5.Exit
```

```
Enter your choice:
4
Enter Account No : 121
Name of account holder: Piyush
Account no.: 121
Account type: Current
Balance: 25000
Enter the amount you want to withdraw:
3000
Balance after withdrawal: 22000
```

CONCLUSION:

From all the information above we can create a bank management system. The whole process of banking is showed in the code like creating new account, displaying details, deposit and withdraw. Hence we can conclude that project is accomplished successfully.