

MINI-PROJECT REPORT

JAVA (OOPM)

TITLE:

BANK SERVICES AND SYSTEMS

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BANK SERVICES AND SYSTEMS

INTRODUCTION:

Bank is an essential place to keep our money safe. Also, it provides us with various services like loans and keeping the money in safe lockers, deposits etc. This makes bank and humans interconnected. Money which is an essential property nowadays needs to be protected from many peoples who have an eye on it. So, the management of it should also be done conveniently. This is why we took this project.

PROBLEM DEFINATION

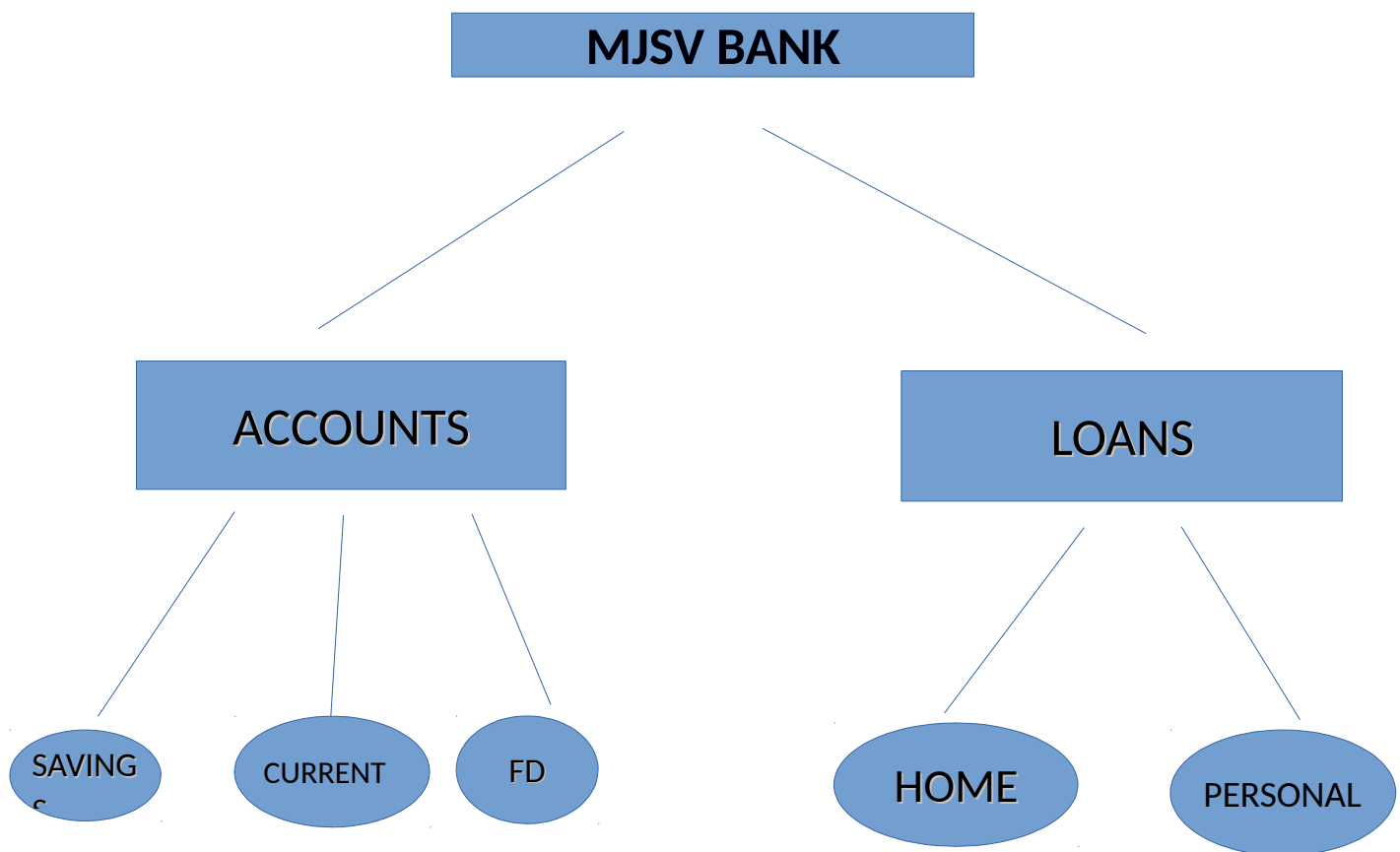
Bank need to handle everything in case of user details ,his transactions and all. Our project basically focuses on the Loans given to the user with the amount of years he wants to get the loan for, the amount of money he wants and the amount he has to pay after the given years with interest.

Also, we have taken the Accounts with the owners name from the user along with his initial balance and then giving him the option to keep the money in Fixed Deposit ,Savings or Current .

MODULES:

- Entry of Account Details
- Initial Balance
- Final Amount after Fixed Deposit, Current or Savings
- Loans in case of Personal, Home Loan

IMPLEMENTATION:



PROGRAM:

```
import java.io.*;
import java.util.*;

class account
{
    long acc_no;
    String acc_name;
    double balance;

    account(long a, String n, double b)
    {
        acc_no=a;
        acc_name=n;
        balance=b;
    }

    void display()
    {
        System.out.println("\nAcc_no:\t"+acc_no);
        System.out.println("Name:\t"+acc_name);
        System.out.println("Initial balance:\t"+balance);
    }
}

class savings extends account
{
    double amt,amtw,savings_bal1,savings_bal;
    savings(long a, String n, double b, double am,double amw)
    {
        super(a,n,b);
        amt=am;
        amtw=amw;
        savings_bal=(amt+balance);
    }
}
```

```

        savings_bal1=(balance-amtw);
    }

    void displayd()
    {
        super.display();
        System.out.println("\nSavings amount:\t"+amt);
        System.out.println("Final balance:\t"+savings_bal);
    }

    void displayw()
    {
        System.out.println("\nWithdraw balance:\t"+amtw);
        System.out.println("Final balance:\t"+savings_bal1);
    }
}

class current extends account
{
    double amtc,amtcw,amcw,current_bal1,current_bal;
    current(long a, String n, double b, double amc)
    {
        super(a,n,b);
        amtc=amc;
        amtcw=amcw;
        current_bal=(amtc+balance);
        current_bal1=(balance-amtcw);
    }

    void displayd()
    {
        super.display();
        System.out.println("\nCurrent Acc amount:\t"+amtc);
        System.out.println("Final balance:\t"+current_bal);
    }

    void displayw()

```

```

    {
        System.out.println("\nWithdraw balance:\t"+amtcw);
        System.out.println("Final balance:\t"+current_bal1);
    }
}

```

```

class fd extends account
{
    int year;
    double fd_interaset,fd_amt,fd_bal,fd_in,tot;
    fd(long a, String n, double b, int y,double fd_am)
    {
        super(a,n,b);

        fd_amt=fd_am;
        year=y;
        if(year==3)
        {
            fd_in=0.05;
        }
        else if(year==5)
        {
            fd_in=0.08;
        }
        else if(year==10)
        {
            fd_in=0.1;
        }
        fd_bal=(fd_in*fd_amt+fd_amt);
        tot=(fd_bal+balance);
    }

    void display()
    {
        super.display();
    }
}

```

```

        System.out.println("\nFD amount:\t"+fd_amt);
        System.out.println("FD balance after "+year+" years
is:\t"+fd_bal);
        System.out.println("Total balance:"+tot);

    }
}

```

```

class loan
{
    long acc_no1;
    String acc_name1;

    loan(long a1, String n1)
    {
        acc_no1=a1;
        acc_name1=n1;
    }

    void display1()
    {
        System.out.println("\nAcc_no:\t"+acc_no1);
        System.out.println("Name:\t"+acc_name1);
    }
}

```

```

class perloan extends loan
{
    int year1;
    double pl_interest, pl_amt, pl_in, tot1;
    perloan(long a, String n, int y1, double pl_am)
    {
        super(a,n);
        pl_amt=pl_am;
        year1=y1;
    }
}

```

```

        if(year1==3)
        {
            pl_in=0.015;
        }
        else if(year1==5)
        {
            pl_in=0.086;
        }
        else if(year1==10)
        {
            pl_in=0.150;
        }
        tot1=(pl_in*pl_amt+pl_amt);
    }

    void display1()
    {
        super.display1();
        System.out.println("\nPersonal Loan amount");
        System.out.println("Personal Loan amount after"+year1+"
years is:\t"+tot1);
    }
}

class homeloan extends loan
{
    int year2;
    double hl_interest, hl_amt, hl_in, tot2;
    homeloan(long a, String n, int y2, double hl_am)
    {
        super(a,n);
        hl_amt=hl_am;
        year2=y2;

        if(year2==3)

```



```

        {
            hl_in=0.045;
        }
        else if(year2==5)
        {
            hl_in=0.086;
        }
        else if(year2==10)
        {
            hl_in=0.120;
        }
        tot2=(hl_in*hl_amt+hl_amt);

    }

    void display1()
    {
        super.display1();
        System.out.println("\nHome Loan amount");
        System.out.println("Home Loan amount after"+year2+"
years is:\t"+tot2);
    }
}

class bank
{

    static int n=100;
    static
    {

        System.out.println("\n=====
=====\\n");
    }
}

```

```

        System.out.println(".....Welcome To MJSV
Bank.....\n");

System.out.println("=====
=====
===== \n");
}

    public static void main(String args[])throws IOException
    {
        Scanner s=new Scanner(System.in);

        while(n!=0)
        {

            System.out.println("\n1.Accounts\n2.Loan\n3.Exit\n\nEnter
your choice\n");
            int choice=s.nextInt();
            switch(choice)
            {
                case 1:
                    Scanner s1=new Scanner(System.in);
                    long acc_no;
                    String acc_name;
                    double balance;

                    System.out.println("\nEnter  Account
name\n\tAccount Number\n\tBalance\n");

                    acc_name=s1.nextLine();
                    acc_no=s1.nextInt();
                    balance=s1.nextDouble();

                    System.out.println("\nEnter \n1. Savings\n2.
FD\n3. Current\n");
                    int choicea=s1.nextInt();

                    switch(choicea)
                    {

```

```

                                case
1: System.out.println("\n1.Deposit\n2.Withdraw\n");
                                int num=s1.nextInt();
                                switch(num)
                                {
                                    case 1:

System.out.println("\nEnter amount to deposit in savings Acc");
                                double am=s1.nextDouble();
                                double amw=0;
                                savings s5=new
savings(acc_no,acc_name,balance,am,amw);
                                s5.displayd();
                                break;
                                    case
2: System.out.println("\nEnter amount to Withdraw in savings Acc");
                                amw=s1.nextDouble();
                                am=0;
                                savings s6=new
savings(acc_no,acc_name,balance,am,amw);
                                s6.displayw();

                                break;
                                }
                                break;
                                case 2: System.out.println("\nEnter
amount of Fixed deposit\n");

                                double

fd_am=s1.nextDouble();

                                System.out.println("\nEnter
number of years 3, 5 or 10");

                                int y=s1.nextInt();
                                fd f=new

fd(acc_no,acc_name,balance,y,fd_am);
                                f.display();
                                break;

```

```

        case
3: System.out.println("\n1.Deposit\n2.Withdraw\n");
        num=s1.nextInt();
        switch(num)
        {
            case 1:

System.out.println("\nEnter amount to deposit in Current Acc");
                double amc=s1.nextDouble();
                double amcw=0;
                savings s5=new
savings(acc_no,acc_name,balance,amc,amcw);
                s5.displayd();
                break;
            case
2: System.out.println("\nEnter amount to Withdraw in Current Acc");
                amcw=s1.nextDouble();
                amc=0;
                savings s6=new
savings(acc_no,acc_name,balance,amc,amcw);
                s6.displayw();

                break;
        }
        break;
    case 2:
        Scanner s3=new Scanner(System.in);
        long acc_no1;
        String acc_name1;

        System.out.println("\nEnter Account
name\n\tAccount Number\n");

        acc_name1=s3.nextLine();

```

```

        acc_no1=s3.nextInt();

        System.out.println("\nEnter \n1.Personal
Loan\n2.Home Loan\n");
        int choicel=s3.nextInt();

        switch(choicel)
        {
            case 1:BufferedReader
br=new BufferedReader(new InputStreamReader(System.in));

            System.out.println("\nReason for applying Loan");
                String
reason=br.readLine();

            System.out.println("Enter your amount for Personal loan\n");
                double
pl_am=s3.nextDouble();

            System.out.println("\nEnter number of years 3, 5 or 10");
                int
y1=s3.nextInt();

                perloan pl=new
perloan(acc_no1,acc_name1,y1,pl_am);

                pl.display1();
                break;

            case
2:System.out.println("Enter your amount for Home loan\n");
                double
hl_am=s3.nextDouble();

            System.out.println("\nEnter number of years 3, 5 or 10");
                int
y2=s3.nextInt();

                homeloan hl=new
homeloan(acc_no1,acc_name1,y2,hl_am);

```

```

hl.display1();
break;

        }
        break;
    case 3:n=0;
    break;
}
}
}
}
}

```

SNAPSHOT:

```

Terminal
student@lab:~/Desktop$ javac bank1.java
student@lab:~/Desktop$ java bank

=====
.....Welcome To MJSV Bank.....
=====

1.Accounts
2.Loan
3.Exit

Enter your choice

```

OUTPUT:

```
student@lab:~/Desktop$ javac bank1.java
```

student@lab:~/Desktop\$ java bank

=====

.....Welcome To MJSV Bank.....

=====

1.Accounts

2.Loan

3.Exit

Enter your choice

1

Enter Account name

Account Number

Balance

mandar

35756

6000

Enter

1. Savings

2. FD

3. Current

1

1.Deposit

2.Withdraw

1

Enter amount to deposit in savings Acc

500

Acc_no: 35756

Name: mandar

Initial balance: 6000.0

Savings amount: 500.0

Final balance: 6500.0

1.Accounts

2.Loan

3.Exit

Enter your choice

1

Enter Account name

Account Number

Balance

saurav

3587

10000

Enter

1. Savings

2. FD

3. Current

3

1.Deposit

2.Withdraw

2

Enter amount to Withdraw in Current Acc

500

Withdraw balance: 500.0

Final balance: 9500.0

1.Accounts

2.Loan

3.Exit

Enter your choice

1

Enter Account name

Account Number

Balance

vaibhav

456677

50000

Enter

1. Savings

2. FD

3. Current

2

Enter amount of Fixed deposit

5000

Enter number of years 3, 5 or 10

10

Acc_no: 456677

Name: vaibhav

Initial balance: 50000.0

FD amount: 5000.0

FD balance after 10 years is: 5500.0

Total balance:55500.0

1.Accounts

2.Loan

3.Exit

Enter your choice

2

Enter Account name

Account Number

jayesh

46688

Enter

1.Personal Loan

2.Home Loan

1

Reason for applying Loan

Party deni hai

Enter your amount for Personal loan

10000

Enter number of years 3, 5 or 10

3

Acc_no: 46688

Name: jayesh

Personal Loan amount

Personal Loan amount after 3 years is: 10150.0

1.Accounts

2.Loan

3.Exit

Enter your choice

3

student@lab:~/Desktop\$

*/