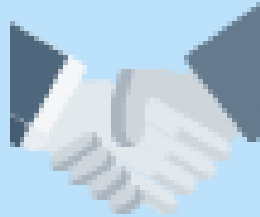
PPS MINI PROJECT

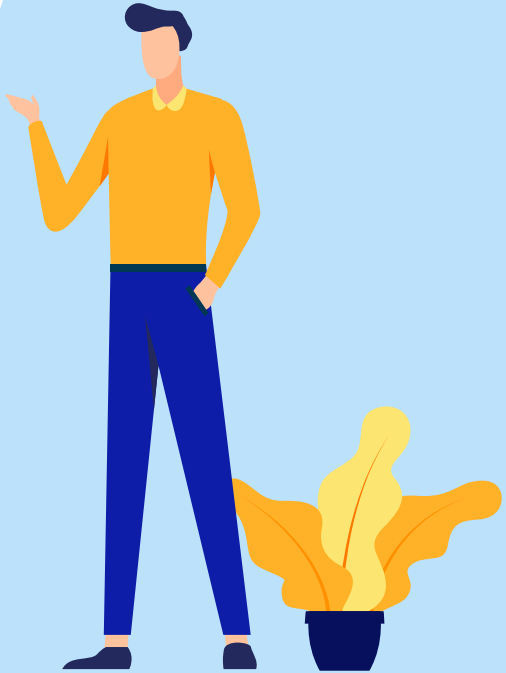
BANK MANAGEMENT SYSTEM

ABOUT US

UDHBHAV NAYAK (RA2111003010284)
AVANTIKA KUMARI (RA2111003010286)

DESCRIPTION



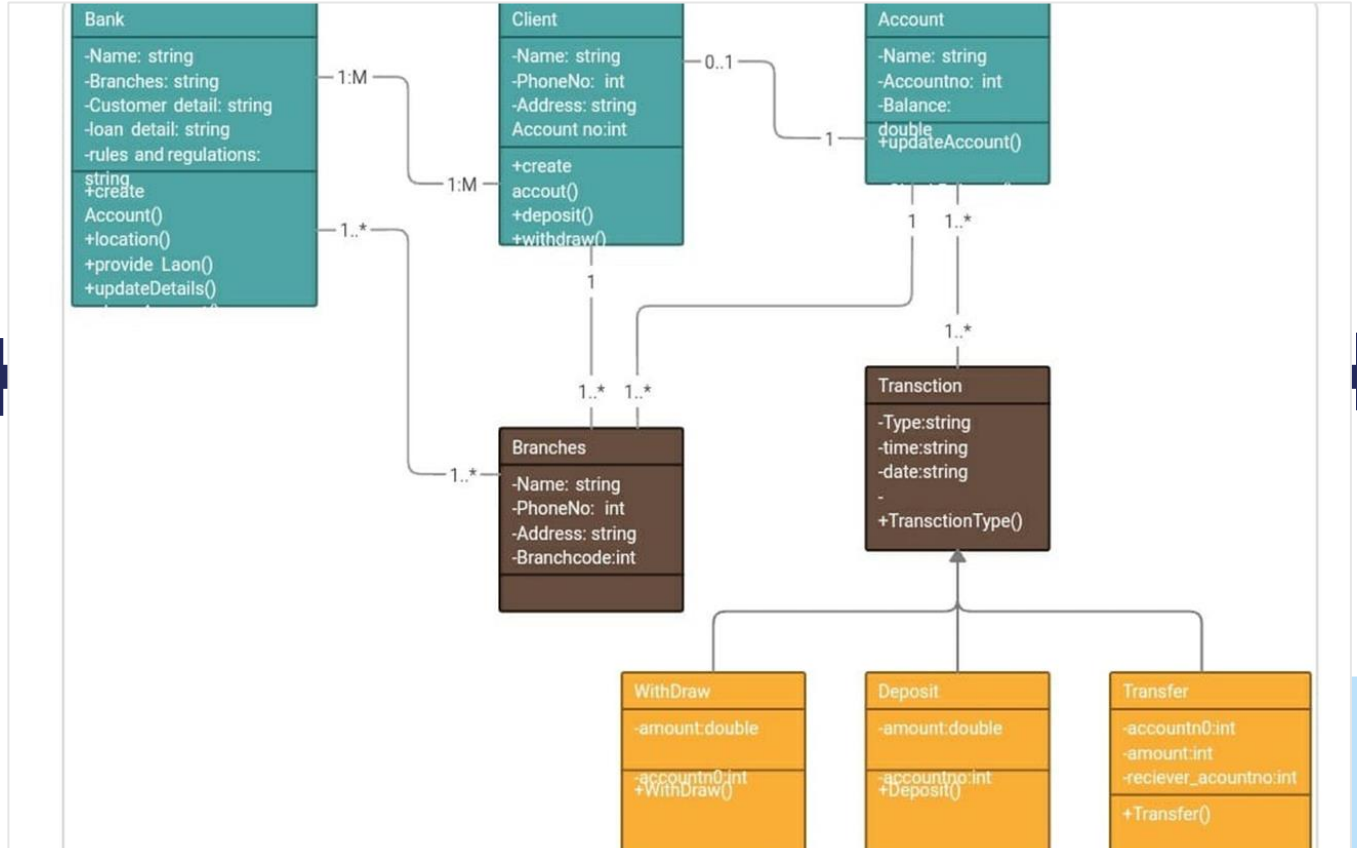


- Bank Management System is based on dot NET.
- It is used to keep the records of clients, employee etc in the bank.
- The bank management system is an application for maintaining the customers personal information within the account of the bank .
- The system provides the access to the customer to:-
  - create an account
  - deposit/withdraw the cash from his account
  - to view reports of all accounts present.
- The following presentation provides the specification for the system.

ALGORITHM

1. Start.
2. Declare a structure name customer which includes variables account number, name, balance.
3. Declare the user defined functions such as display, accept, search, deposit, withdraw.
4. Declare variable, n, choice, account _no, amount index.
5. Use a do loop to display the list and use a switch case to collect input.
6. Display the declared result using functions.
7. Stop.

FLOWCHART


Bank
-Name: string
-Branches: string
-Customer detail: string
-loan detail: string
-rules and regulations: string
+create Account()
+location()
+provide Laon()
+updateDetails()
Client
-Name: string
-PhoneNo: int
-Address: string
Account no:int
+create accout()
+deposit()
+withdraw()
Account
-Name: string
-Accountno: int
-Balance: double
+updateAccount()
Branches
-Name: string
-PhoneNo: int
-Address: string
-Branchcode:int
Transction
-Type:string
-time:string
-date:string
+TransctionType()
WithDraw
-amount:double
-accountn0:int
+WithDraw()
Deposit
-amount:double
-accountno:int
+Deposit()
Transfer
-accountn0:int
-amount:int
-reciever_acountno:int
+Transfer()
1:M
1:M
0..1
1
1..*
1..*
1
1..*
1..*
1..*
1..*

THE CODE

Go Run Terminal Help • bankmanagementsys.c - Untitled (Workspace) - Visual Studio Code

bankmanagementsys.c •

C Programs > C bankmanagementsys.c > main()

```c
#include <stdio.h>

struct customer
{
    int account_no;
    char name[80];
    int balance;
};

void accept(struct customer[], int);
void display(struct customer[], int);
int search(struct customer[], int, int);
void deposit(struct customer[], int, int, int);
void withdraw(struct customer[], int, int, int);

int main()
{
    struct customer data[20];
    int n, choice, account_no, amount, index;

    printf("Banking System\n\n");
    printf("Number of customer records you want to enter? : ");
    scanf("%d", &n);
    accept(data, n);
    do
    {

        printf("\nBanking System Menu :\n");
        printf("Press 1 to display all records.\n");
        printf("Press 2 to search a record.\n");
        printf("Press 3 to deposit amount.\n");
        printf("Press 4 to withdraw amount.\n");
        printf("Press 0 to exit.\n");
```

bankmanagementsys.c

C Programs > bankmanagementsys.c > main()

```c
        printf("Press 3 to deposit amount.\n");
        printf("Press 4 to withdraw amount.\n");
        printf("Press 0 to exit.\n");
        printf("\nEnter choice(0-4) : ");
        scanf("%d", &choice);
        switch (choice)
        {
            case 1:
                display(data, n);
                break;
            case 2:
                printf("Enter account number to search : ");
                scanf("%d", &account_no);
                index = search(data, n, account_no);
                if (index ==  - 1)
                {
                    printf("Record not found : ");
                }
                else
                {
                    printf("A/c Number: %d\nName: %s\nBalance: %d\n",data[index].account_no, data[index].name, data[index].balance);
                }
                break;
            case 3:
                printf("Enter account number : ");
                scanf("%d", &account_no);
                printf("Enter amount to deposit : ");
                scanf("%d", &amount);
                deposit(data, n, account_no, amount);
                break;
            case 4:
                printf("Enter account number : ");
                scanf("%d", &account_no);
```

Go Run Terminal Help • bankmanagementsys.c - Untitled (Workspace) - Visual Studio Code

bankmanagementsys.c •

C Programs > C bankmanagementsys.c > main()

```c
            case 4:
                printf("Enter account number : ");
                scanf("%d", &account_no);
                printf("Enter amount to withdraw : ");
                scanf("%d", &amount);
                withdraw(data, n, account_no, amount);
        }
    } while (choice !=0);

    return 0;
}

void accept(struct customer list[80], int s)
{
    int i;
    for (i = 0; i < s; i++)
    {
        printf("\nEnter data for Record #%d", i + 1);

        printf("\nEnter account_no : ");
        scanf("%d", &list[i].account_no);
        fflush(stdin);
        printf("Enter name : ");
        gets(list[i].name);
        list[i].balance = 0;
    }
}

void display(struct customer list[80], int s)
{
    int i;

```

bankmanagementsys.c •

C Programs > bankmanagementsys.c > main()

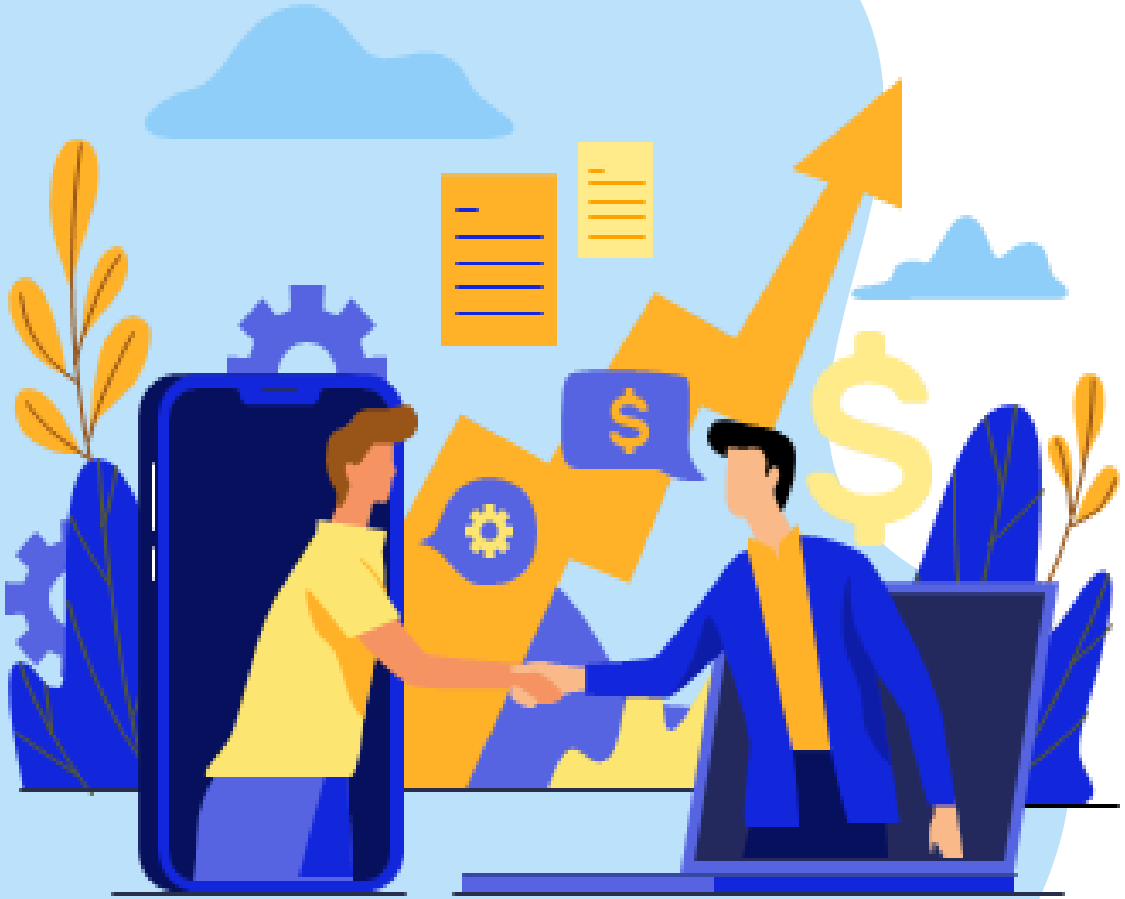
```c
    for (i = 0; i < s; i++)
    {
        printf("%d\t%s\t%d\n", list[i].account_no, list[i].name, list[i].balance);
    }
}

int search(struct customer list[80], int s, int number)
{
    int i;

    for (i = 0; i < s; i++)
    {
        if (list[i].account_no == number)
        {
            return i;
        }
    }
    return  - 1;
}

void deposit(struct customer list[], int s, int number, int amt)
{
    int i = search(list, s, number);
    if (i ==  - 1)
    {
        printf("Record not found");
    }
    else
    {
        list[i].balance += amt;
    }
}

```

OUTPUT

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Banking System

Number of customer records you want to enter? : 2

Enter data for Record #1
Enter account_no : 01
Enter name : Udhbhav Nayak

Enter data for Record #2
Enter account_no : 02
Enter name : Avantika Kumari

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 : 01
Enter amount to deposit : 2000

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 : 02
Enter amount to deposit : 1000

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.
```

```
) : 4
mber : 01
withdraw : 500

enu :
ay all records.
h a record.
it amount.
raw amount.


) : 1


Balance
Nayak   1500
 Kumari 1000

enu :
ay all records.
h a record.
it amount.
raw amount.


) : 0
s>
```



THANK YOU