

PROJECT TITLE

A MINI PROJECT REPORT

Submitted by

JUHI RASTOGI

RA2111003011477

for the course 18CSS101J Programming for Problem Solving

Under the guidance of

DR.M.MURALI

(Professor, Department of Computing  
Technologies)

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

of

FACULTY OF ENGINEERING AND TECHNOLOGY



**SRM**

Institute of Science and Technology

S.R.M. Nagar, Kattankulathur, Chengalpattu District  
JUNE 2022

# ATM BANKING SYSTEM

MINI PROJECT

# ABOUT PROJECT

## What is ATM machine?

A banking terminal that accepts deposits and disburses cash is known as an ATM (Automatic Teller Machine). ATMs are activated by inserting cash (in the case of ATM depositing) or a debit/credit card with a magnetic stripe containing the user's account number and PIN (for cash withdrawals).

Businesses rely on ATMs because they provide them with numerous advantages. ATMs assist retail stores, hotels, cafés, and other businesses in increasing foot traffic, basket spend, customer loyalty, security, and saving money on banking fees!

Key Features of the ATM Machine project:

The program will do some tasks mentioned below to operate the ATM Machine:

- The C Program Can Display the ATM Transaction
- It has a pin verification system to log in to ATM Machine
- Users can check the balance from this ATM Machine project
- Users can Withdraw Cash from ATM Machine
- Users can Deposit Cash from ATM Machine

## CODE:-

```
#include <stdio.h>
#include <stdlib.h>
#include <stdbool.h>
#include <math.h>

//Functions
void login();
void mainMenu();
void checkBalance(float balance);
float moneyDeposit(float balance);
float moneyWithdraw(float balance);
void menuExit();
void errorMessage();

//Main Code
int main() {
    //Local Declarations
    int option;
    float balance = 15000.00;
    int choose;

    bool again = true;

    // insert code here...

    while (again) {
        mainMenu();

        printf("=====\\n");
        printf("Your Selection:\\t");
        scanf("%d", &option);

        switch (option) {
```

```

    case 1:
        system("CLS");
        checkBalance(balance);
        break;
    case 2:
        system("CLS");
        balance = moneyDeposit(balance);
        break;
    case 3:
        system("CLS");
        balance = moneyWithdraw(balance);
        break;

    case 4:
        system("CLS");
        menuExit();
        return 0;

    default:
        errorMessage();
        break;
}

printf("=====\\n");
printf("Would you like to do another transaction:\\n");
printf("< 1 > Yes\\n");
printf("< 2 > No\\n");
scanf("%d", &choose);

system("CLS");

if (choose == 2) {
    again = false;
    menuExit();
}

```

```
    }  
}  
  
    return 0;  
} //main code
```

//Functions

```
void mainMenu() {  
  
    printf("*****Hello!*****\n");  
    printf("*****Welcome to ATM Banking*****\n\n");  
    printf("****Please choose one of the options below****\n\n");  
    printf("< 1 > Check Balance\n");  
    printf("< 2 > Deposit\n");  
    printf("< 3 > Withdraw\n");  
    printf("< 4 > Exit\n\n");  
  
} //Main Menu  
  
void checkBalance(float balance) {  
    printf("You Choose to See your Balance\n");  
    printf("\n\n****Your Available Balance is:  $%.2f\n\n", balance);  
  
} //Check Balance  
  
float moneyDeposit(float balance) {  
    float deposit;  
    printf("You choose to Deposit a money\n");  
    printf("$$$$Your Balance is: $%.2f\n\n", balance);  
    printf("****Enter your amount to Deposit\n");  
    scanf("%f", &deposit);
```

```

    balance += deposit;

    printf("\n****Your New Balance is:  $%.2f\n\n", balance);
    return balance;

} // money deposit

float moneyWithdraw(float balance) {
    float withdraw;
    bool back = true;

    printf("You choose to Withdraw a money\n");
    printf("$$$$Your Balance is: $%.2f\n\n", balance);

    while (back) {
        printf("Enter your amount to withdraw:\n");
        scanf("%f", &withdraw);

        if (withdraw < balance) {
            back = false;
            balance -= withdraw;
            printf("\n$$$$Your withdrawing money is: $%.2f\n", withdraw);
            printf("****Your New Balance is:  $%.2f\n\n", balance);
        }

        else {

            printf("+++You don't have enough money+++ \n");
            printf("Please contact to your Bank Customer Services\n");
            printf("****Your Balance is:  $%.2f\n\n", balance);
        }
    }
    return balance;
}

```

```

} // money withdraw

void menuExit() {
    printf("-----Take your receipt!!!-----\n");
    printf("-----Thank you for using ATM Banking Machine!!!-----\n");

} // exit menu

void errorMessage() {;
    printf("!! option does not exist!! \n");
} // error message

```

## OUTPUT:-

```

*****Hello!*****
*****Welcome to ATM Banking*****

****Please choose one of the options below****

< 1 > Check Balance
< 2 > Deposit
< 3 > Withdraw
< 4 > Exit

=====
Your Selection: 1
sh: 1: CLS: not found
You Choose to See your Balance

```



\*\*\*\*Your Available Balance is: \$15000.00

=====

Would you like to do another transaction:

< 1 > Yes

< 2 > No

2 1

sh: 1: CLS: not found

\*\*\*\*\*Hello!\*\*\*\*\*

\*\*\*\*\*Welcome to ATM Banking\*\*\*\*\*

\*\*\*\*Please choose one of the options below\*\*\*\*

< 1 > Check Balance

< 2 > Deposit

< 3 > Withdraw

< 4 > Exit

=====

Your Selection: 2

sh: 1: CLS: not found

You choose to Deposit a money

\$\$\$Your Balance is: \$15000.00

\*\*\*\*Enter your amount to Deposit

40000

\*\*\*\*Your New Balance is: \$19000.00

=====

Would you like to do another transaction:

< 1 > Yes

< 2 > No

2 1

sh: 1: CLS: not found

\*\*\*\*\*Hello!\*\*\*\*\*

\*\*\*\*\*Welcome to ATM Banking\*\*\*\*\*

\*\*\*\*Please choose one of the options below\*\*\*\*

< 1 > Check Balance

< 2 > Deposit

< 3 > Withdraw

< 4 > Exit

=====

Your Selection: 2 3

sh: 1: CLS: not found

You choose to Withdraw a money

\$\$\$Your Balance is: \$19000.00

Enter your amount to withdraw:

50000

\$\$\$Your withdrawing money is: \$5000.00

\*\*\*\*Your New Balance is: \$14000.00

=====

Would you like to do another transaction:

< 1 > Yes

< 2 > No

2

sh: 1: CLS: not found

-----Take your receipt!!!-----

-----Thank you for using ATM Banking Machine!!!-----

This is the final output for ATM banking system.