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## **PPS MINI PROJECT**

**Title:** ATM Banking System

**Aim:** The aim of this project is to make the bank transaction in the most efficient manner. This project is useful for checking balance, viewing customer cash withdrawal and deposit of money. ATM Banking System also aims for understanding operations that are involved in ATM software.

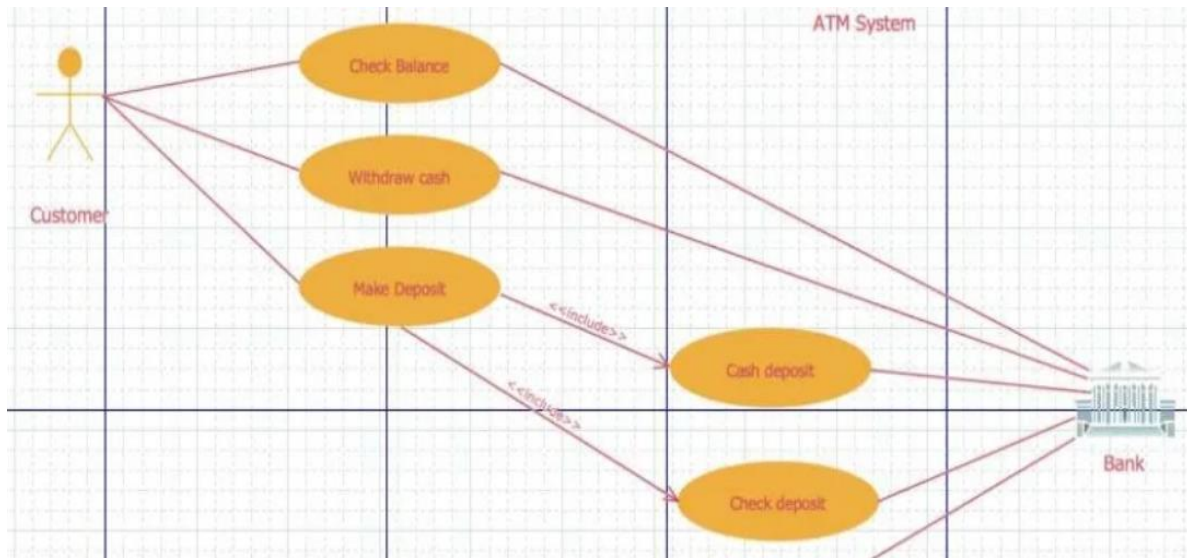
### **Project Description:**

Millions of times per day around the globe people are instantly withdrawing money at automatic teller machines (ATMs). Given the fast-pace of the world today, it is not surprising that the demand for access to quick cash is so immense. The power of ATMs would not be possible without secure connections. The final act of ATM dispensing cash is the result of an amazingly fast burst of the customer never sees, but a trust is being done in a confidential manner.

ATM Banking System enables the clients of a bank to have access to their account without going to the bank. This is achieved only by development the application using online concepts.

When the product is implemented, the user who uses this product will be able to see all the information and services provided by the ATM, when he enters the necessary option and arguments. The product also provides services like deposit cash and withdrawal. The data is stored in the database and is retrieved whenever necessary.

The program is designed in such a way that the user has to enter the choice number from the menu, corresponding to the operation that he wants to do. For example, when the user wants to check the balance of his account than he/she has to enter the option for "Check Balance" provided in the main menu. When the option is entered alone with the respective argument, then the account balance is displayed on the screen.



A flowchart depicting the working of the ATM Banking System

## **Coding:**

```
#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();
```

```
int main() //Main Code
```

```
{
```

```
//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+++");  
            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("+++!!!You selected invalid number!!!+++\\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: 2
sh: 1: CLS: not found
You choose to Deposit a money
$$$$Your Balance is: $15000.00

****Enter your amount to Deposit
1350

****Your New Balance is:   $16350.00

=====
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!!!-----

...Program finished with exit code 0
Press ENTER to exit console.

```

```

✓ ✎ 📄
< 1 >  Check Balance
< 2 >  Deposit
< 3 >  Withdraw
< 4 >  Exit

=====
Your Selection: 3
sh: 1: CLS: not found
You choose to Withdraw a money
$$$$Your Balance is: $15000.00

Enter your amount to withdraw:
1200

$$$$Your withdrawing money is:  $1200.00
****Your New Balance is:   $13800.00

=====
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!!!-----

...Program finished with exit code 0
Press ENTER to exit console.

```



## **Conclusion:**

The ATM Banking System helps us to understand design basics and logic for banking transactions in checking balance, withdrawal and deposit of cash. This project gives an over view about entire banking software processing.