

ATM

Project by,

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4th Semester

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28/5/2021

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1. Introduction

Automated Teller Machines, popularly referred to as ATMs, are one of the most useful advancements in the banking sector. ATMs allow banking customers to avail quick self-serviced transactions, such as cash withdrawal, deposit, and fund transfers.

What is an Automated Teller Machine (ATM)?

ATMs enable individuals to make banking transactions without the help of an actual teller. Also, customers can avail banking services without having to visit a bank branch. Most ATM transactions can be availed with the use of a debit or credit card. There are some transactions that need no debit or credit card.

Why Automated Teller Machine (ATM) Important?

The evolution of the banking sector has made financial lives easier for customers. The first-ever automated teller machine was set up at London, United Kingdom, in the year 1967. In just over 50 years, the ATMs are now seen in use in every country. The existence of ATMs has alleviated the need to visit a bank branch to make simple banking transactions, such as cash deposit and cash withdrawal. Gone are the days when people needed to visit bank branches to complete these basic transactions within the bank operation hours.

Another significant use of ATMs is that they are found almost everywhere. In India, almost every neighborhood in major cities, such as Delhi, Mumbai, Bengaluru, and Hyderabad has at least one ATM. Also, ATMs allow inter-bank customers to transact. For Instance, a customer of ABC bank can make transactions in an ATM set up by XYZ bank.

2. System Requirements

2.1 Hardware requirements

- Processor – i3 or higher
- RAM – 2 GB or higher
- Monitor – 17” color monitor
- Keyboard - 104 keyboard
- Mouse – standard mouse

2.2 Software requirements

- Windows 10
- DEV C++ Compiler

2.3 Programming Language

- C++

3. Features

The features of the automated teller machine include the following.

- Savings and Current Account
- View the account information.
- Print recent transactions list.
- Change your pin.
- Deposit your cash.
- Cash withdrawal.
- Check the account balance.

4. Source code

GitHub link:

<https://github.com/Prajwal-g-b/ATM>

5. Result

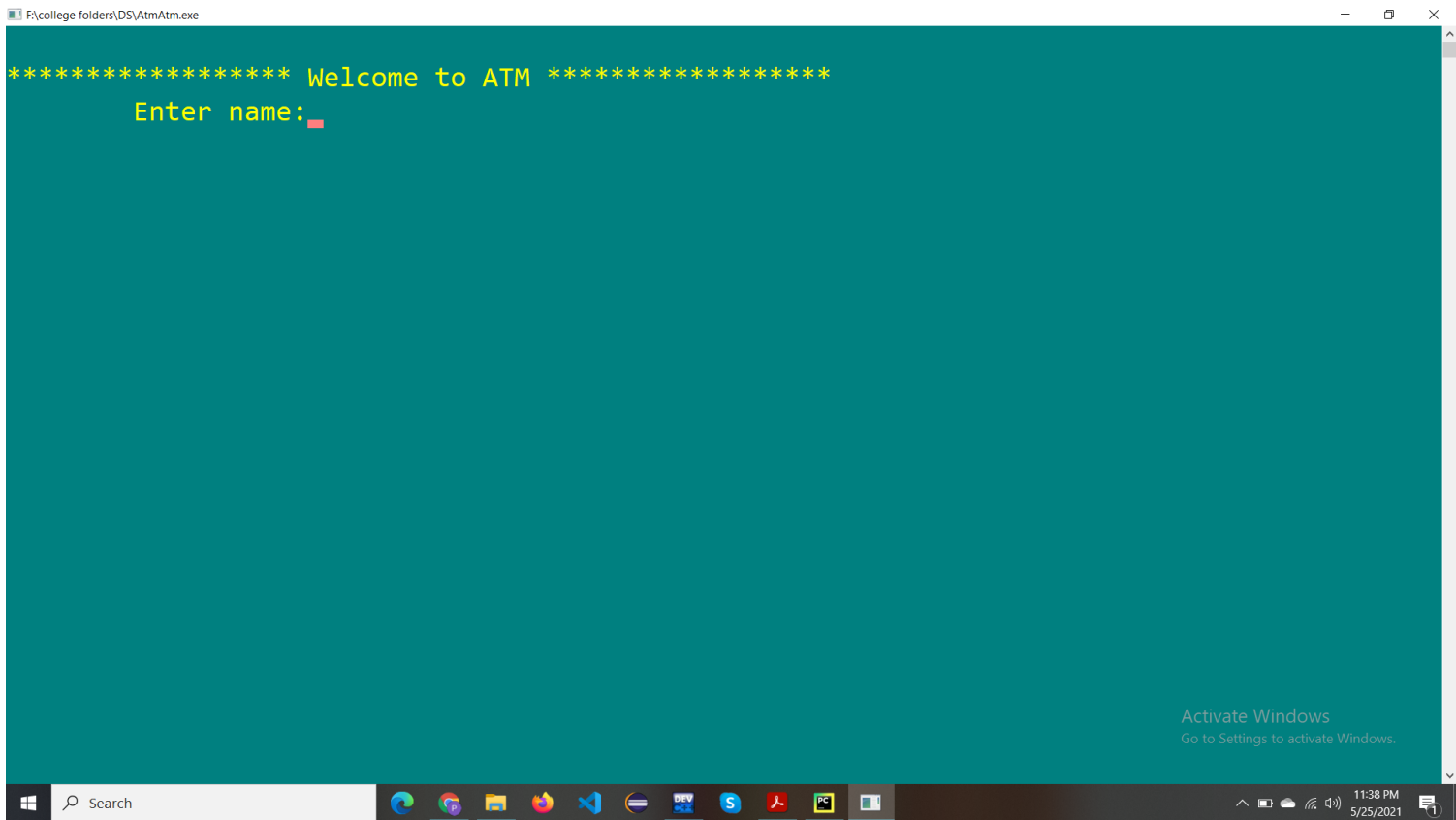


fig: Home page

For Current Account:

```
F:\college folders\DS\AtmAtm1.exe

***** Welcome to OOC Bank *****

Enter name:abdhfjsk

Enter account no:458752

1.Current account
2.Savings account
Enter your choice:1

1.Card less Transactions:
2.Card Transactions:
Enter your choice:1

Enter the OTP received on your mobile:154
Please enter a valid OTP:1234

***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *

Activate Windows
Go to Settings to activate Windows.
```

```
F:\college folders\DS\AtmAtm1.exe

1.Card less Transactions:
2.Card Transactions:
Enter your choice:1

Enter the OTP received on your mobile:154
Please enter a valid OTP:1234

***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
Enter your choice:1
Name:abdhfjsk
Account no:458752
Current account Balance:$50

Activate Windows
Go to Settings to activate Windows.
```

fig: Enter the details and check OTP

fig: if the OTP is valid then proceed to the menu

```

F:\college folders\DS\AtmAtm1.exe
*          4.Show Balance          *
*          5.Recent Transactions    *
*          6.Pin Change            *
*          7.EXIT                  *

*****
      Enter your choice:2
Enter amount to be Deposited:$100
Available balance is $150

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *
*          5.Recent Transactions    *
*          6.Pin Change            *
*          7.EXIT                  *

*****
      Enter your choice:
  
```

fig: Choice 2 for amount deposit

```

F:\college folders\DS\AtmAtm1.exe
Available balance is $150

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *
*          5.Recent Transactions    *
*          6.Pin Change            *
*          7.EXIT                  *

*****
      Enter your choice:4
Total Current Balance is: $150

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *
  
```

fig: Choice 4 for Balance check

```
F:\college folders\DS\AtmAtm1.exe

*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *
*          5.Recent Transactions   *
*          6.Pin Change            *
*          7.EXIT                  *

*****

      Enter your choice:3
Enter amount to be Withdrawn $200
Enter your PIN:123456
Collect your cash.....

Available balance is $-50

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *

Activate Windows
Go to Settings to activate Windows.
```

fig: Choice 3 for amount Withdrawal

```
F:\college folders\DS\AtmAtm1.exe

*          3.Withdraw Amount       *
*          4.Show Balance          *
*          5.Recent Transactions   *
*          6.Pin Change            *
*          7.EXIT                  *

*****

      Enter your choice:4
Total Current Balance is: $-50

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *
*          5.Recent Transactions   *
*          6.Pin Change            *
*          7.EXIT                  *

*****

      Enter your choice:

Activate Windows
Go to Settings to activate Windows.
```

fig: Choice 4 for Balance check


```
F:\college folders\DS\AtmAtm1.exe
Total Current Balance is: $-50

***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions*
*      6.Pin Change        *
*      7.EXIT              *

*****
Enter your choice:5

*****Transactions*****
Name: abdhfjsk
Account no: 458752
1.Amount deposit at Current account is $100
2.Amount Withdrawl at Current account is $200
Available current balance is $-50

Activate Windows
Go to Settings to activate Windows.
```

fig: Choice 5 for view transaction

```
F:\college folders\DS\AtmAtm1.exe

*****
Enter your choice:6

Enter your current pin:123456

Enter the new PIN:1111

Enter the PIN again:1111

Successfully changed your pin
***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions*
*      6.Pin Change        *
*      7.EXIT              *

*****
Enter your choice:
Activate Windows
Go to Settings to activate Windows.
```

fig : Pin changed

```

F:\college folders\DS\AtmAtm1.exe

*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *
*          5.Recent Transactions   *
*          6.Pin Change            *
*          7.EXIT                  *

*****

Enter your choice:3
Enter amount to be Withdrawn $10
Enter your PIN:1111
Collect your cash.....

Available balance is $-60

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *

```

fig: Choice 3 for PIN change

```

F:\college folders\DS\AtmAtm1.exe

*          5.Recent Transactions   *
*          6.Pin Change            *
*          7.EXIT                  *

*****

Enter your choice:5

*****Transactions*****
Name: abdhfjsk
Account no: 458752
1.Amount deposit at Current account is $100
2.Amount Withdrawl at Current account is $200
3.PIN change
4.Amount Withdrawl at Current account is $10
Available current balance is $-60

***** MENU *****
*          1.Account Info          *
*          2.Deposit Amount        *
*          3.Withdraw Amount       *
*          4.Show Balance          *

```

fig : Choice 3 for amount Withdrawal

```
F:\college folders\DS\AtmAtm1.exe
4.Amount Withdrawl at Current account is $10
Available current balance is $-60

***** MENU *****
*           1.Account Info           *
*           2.Deposit Amount         *
*           3.Withdraw Amount        *
*           4.Show Balance           *
*           5.Recent Transactions    *
*           6.Pin Change            *
*           7.EXIT                  *

*****
Enter your choice:7

*****Thank you for visiting*****

-----
Process exited after 194.9 seconds with return value 1
Press any key to continue . . .

Activate Windows
Go to Settings to activate Windows.
```

fig: Choice 7 for Exit

For Savings Account:

```
F:\college folders\DS\AtmAtm1.exe

***** Welcome to OOC Bank *****

Enter name:akekssk

Enter account no:57856

1.Current account
2.Savings account
Enter your choice:2

1.Card less Transactions:
2.Card Transactions:
Enter your choice:2

Enter PIN:1456
Please enter a valid PIN:123456

Activate Windows
Go to Settings to activate Windows.
```

fig: Home page

```

F:\college folders\DS\AtmAtm1.exe
*              7.EXIT              *
*****
Enter your choice:1
Name:akekssk
Account no:57856
Savings account Balance:$100

***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
Enter your choice:

```

fig: If the PIN is valid then proceed to Menu

```

F:\college folders\DS\AtmAtm1.exe
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
Enter your choice:3
Enter amount to be Withdrawn $150
You dont have enough money
***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
Enter your choice:

```

fig: as it is savings account if the balance is less than total then cant withdrawal

```
F:\college folders\DS\AtmAtm1.exe

*              7.EXIT              *

*****
          Enter your choice:3
Enter amount to be Withdrawn $50
Enter your PIN:123456
Collect your cash.....

Available balance is $50

***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
          Enter your choice:

Activate Windows
Go to Settings to activate Windows.
```

fig: Choice 3 for amount Withdrawal

```
F:\college folders\DS\AtmAtm1.exe

*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
          Enter your choice:2
Enter amount to be Deposited:$145
Available balance is $195

***** MENU *****
*      1.Account Info      *
*      2.Deposit Amount    *
*      3.Withdraw Amount   *
*      4.Show Balance      *
*      5.Recent Transactions *
*      6.Pin Change        *
*      7.EXIT              *

*****
          Enter your choice:

Activate Windows
Go to Settings to activate Windows.
```

fig : Choice 2 for Balance enquiry

```
F:\college folders\DS\AtmAtm1.exe
*****
Enter your choice:5

*****Transactions*****
Name: akekssk
Account no: 57856
1.Amount Withdrawl at Savings account is $50
2.Amount Deposit at Savings account is $145
Available savings balance is $195

***** MENU *****
*           1.Account Info           *
*           2.Deposit Amount         *
*           3.Withdraw Amount        *
*           4.Show Balance           *
*           5.Recent Transactions    *
*           6.Pin Change             *
*           7.EXIT                   *

*****
Enter your choice:
```

fig: Choice 5 for Transactions

```
F:\college folders\DS\AtmAtm1.exe
2.Amount Deposit at Savings account is $145
Available savings balance is $195

***** MENU *****
*           1.Account Info           *
*           2.Deposit Amount         *
*           3.Withdraw Amount        *
*           4.Show Balance           *
*           5.Recent Transactions    *
*           6.Pin Change             *
*           7.EXIT                   *

*****
Enter your choice:7

*****Thank you for visiting*****

-----
Process exited after 126.6 seconds with return value 1
Press any key to continue . . .
```

fig : Choice 7 for Exit

6. Conclusion

ATMs are existing to simplify the financial lives of banking customers. They save customer's time by allowing them to make banking transactions on the go. If your net banking service is not working for some reason, you have to transfer funds to someone far away, and you don't have enough time to visit a bank branch for the same, then all you need to do is visit the nearest ATM, insert your debit or credit card, and follow the instructions as displayed by the machine to transfer funds.