

ATM – Automated Teller Machine

**IN THE PARTIAL FULFILLMENT FOR THE AWARD
OF THE DEGREE OF
BACHELOR'S OF COMPUTER APPLICATIONS
(2019-2020)**

**SHRI GURU GOBIND SINGH COLLEGE
SECTOR 26, CHANDIGARH**



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Acknowledgement

It is a great pleasure for me to acknowledge all those who have contributed towards the conception, origin and nurturing of this project that is on System analysis the “**ATM-Automated Teller Machine**”.

The way can't walk itself. We have to walk on it. For that we must have a guide. Here, I would like to place on record my grateful thanks to each one of them who help us in this project.

Before I get into thick of the thing, I would like to add a few heartfelt words for the people who gave me unending time support whichever and whenever necessary.

My grateful thanks go to our Dept., which provides us an opportunity as a project subject in **6th Semester** to develop a report work skill in this System analysing.

I would like to thank my parents & friends for giving me full feedback when I was in trouble. My special thanks go to **Mr. Chaman Bhardwaj** to give their expert guidance to me whenever necessary.

Last but not the least; I heartily thanks to my teachers **Mrs. Garima & Mrs. Vikramjeet Kaur**.

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CERTIFICATE

This is to certify that the project has been submitted by **Mr. Atul Joshi (17048593)** pursuing BCA (6th semester) at SGGS-26 Chandigarh, under took a project entitled “ATM-Automated Teller Machine” which is a record of Bonafide work carried out by him under my supervision. In my knowledge, this work has not been submitted, either in part or in full, to any other University or Institute for the award of degree. He had submitted the report in time. He had done good work and have fulfilled all the requirements.

Date:

Dept. of Computer Science

Mrs. Garima

Mrs. Vikramjeet Kaur

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Introduction

An ATM (Automated Teller Machine) is a computerized telecommunications device that provides the clients of a financial institution with access to financial transactions in a public space without the need for a cashier, human clerk or bank teller. On most modern ATMs, the customer is identified by inserting a plastic ATM card with a magnetic stripe or a plastic smart card with a chip that contains a unique card number and some security information such as an expiration date. Authentication is provided by the customer entering a personal identification number (PIN). Using an ATM, customers can access their bank accounts:

1. To make cash withdrawals
2. Check their account balances
3. Exchange rate for foreign travellers.

Example- If the currency being withdrawn from the ATM is different from that which the bank account is denominated in (e.g.:
Withdrawing Japanese Yen from a bank account containing US Dollars), the money will be converted at a wholesale exchange rate. Thus, ATMs often provide the best possible exchange rate for foreign travellers and are heavily used for this purpose as well.

Requirement

Software Requirement:

- **Operating System:** Microsoft Windows 10 (64-Bits, With .Net Framework v4.7.2)
- **Front End:** Visual Studio 2019
- **Back End:** Microsoft Access 2019

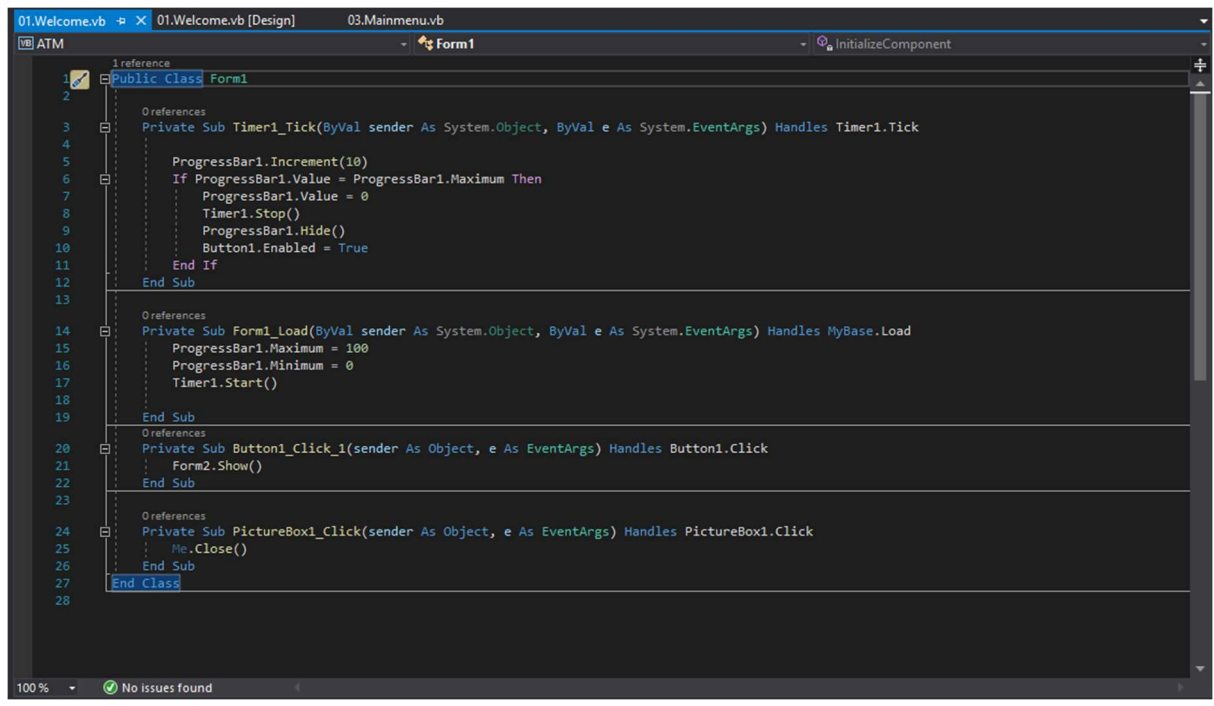
Hardware Requirement:

- **Minimum:**
 1. **Processor:** 1.8 GHz Quad-Core
 2. **Ram:** 2 GB
 3. **HDD or SSD*:** 800 MB
- **Maximum:**
 1. **Processor:** More than 1.8 GHz Quad-Core
 2. **Ram:** Upto 8 GB
 3. **HDD or SSD*:** Upto 20-30 GB
 4. **Video Card:** 720p

SDD*: For better performance.

Implementation

Form 1 (Welcome):

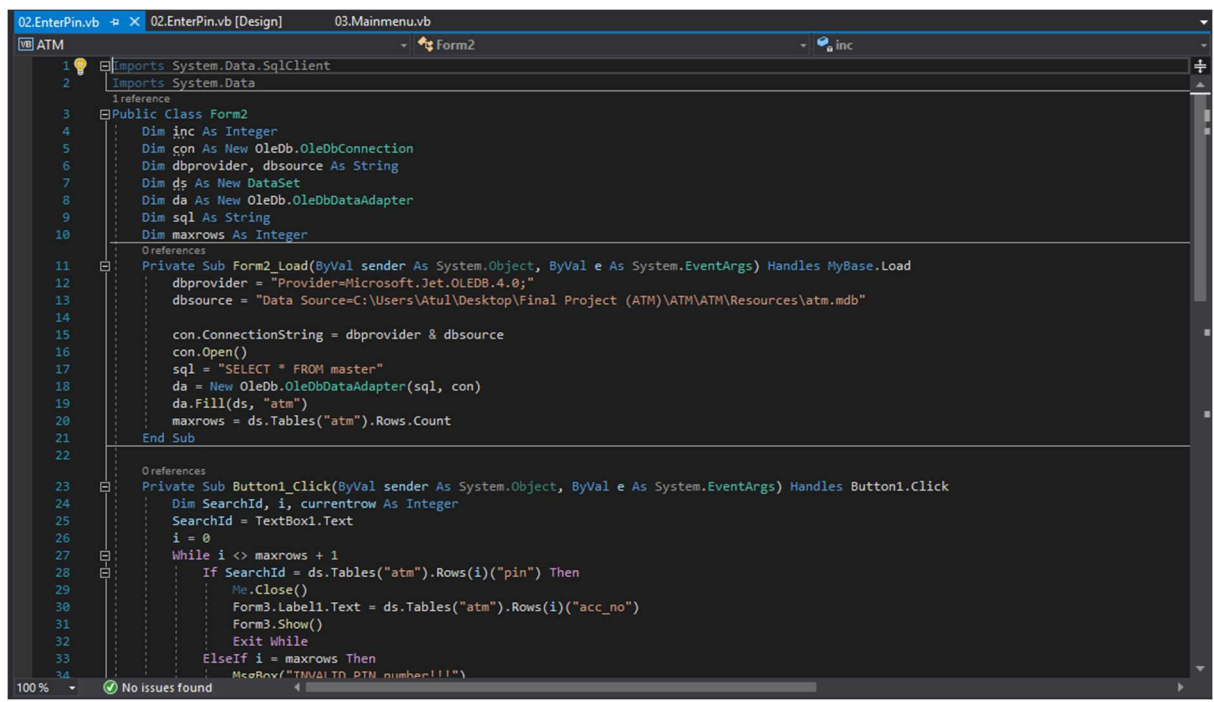


```

1 reference
2 Public Class Form1
3     References
4     Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Timer1.Tick
5
6         ProgressBar1.Increment(10)
7         If ProgressBar1.Value = ProgressBar1.Maximum Then
8             ProgressBar1.Value = 0
9             Timer1.Stop()
10            ProgressBar1.Hide()
11            Button1.Enabled = True
12        End If
13    End Sub
14
15    References
16    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
17        ProgressBar1.Maximum = 100
18        ProgressBar1.Minimum = 0
19        Timer1.Start()
20    End Sub
21
22    References
23    Private Sub Button1_Click_1(sender As Object, e As EventArgs) Handles Button1.Click
24        Form2.Show()
25    End Sub
26
27    References
28    Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click
29        Me.Close()
30    End Sub
31 End Class

```

Form2 (EnterPin):



```

1 Imports System.Data.SqlClient
2 Imports System.Data
3 reference
4 Public Class Form2
5     Dim inc As Integer
6     Dim con As New OleDb.OleDbConnection
7     Dim dbprovider, dbsource As String
8     Dim ds As New DataSet
9     Dim da As New OleDb.OleDbDataAdapter
10    Dim sql As String
11    Dim maxrows As Integer
12
13    References
14    Private Sub Form2_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
15        dbprovider = "Provider=Microsoft.Jet.OLEDB.4.0;"
16        dbsource = "Data Source=C:\Users\Atul\Desktop\Final Project (ATM)\ATM\ATM\Resources\atm.mdb"
17
18        con.ConnectionString = dbprovider & dbsource
19        con.Open()
20        sql = "SELECT * FROM master"
21        da = New OleDb.OleDbDataAdapter(sql, con)
22        da.Fill(ds, "atm")
23        maxrows = ds.Tables("atm").Rows.Count
24    End Sub
25
26    References
27    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
28        Dim SearchId, i, currentrow As Integer
29        SearchId = TextBox1.Text
30        i = 0
31        While i <> maxrows + 1
32            If SearchId = ds.Tables("atm").Rows(i)("pin") Then
33                Me.Close()
34                Form3.Label1.Text = ds.Tables("atm").Rows(i)("acc_no")
35                Form3.Show()
36                Exit While
37            ElseIf i = maxrows Then
38                MsgBox("PIN NOT FOUND")
39            End If
40            i++
41        End While
42    End Sub
43 End Class

```

```

26 i = 0
27 While i <> maxrows + 1
28     If SearchId = ds.Tables("atm").Rows(i)("pin") Then
29         Me.Close()
30         Form3.Label1.Text = ds.Tables("atm").Rows(i)("acc_no")
31         Form3.Show()
32         Exit While
33     ElseIf i = maxrows Then
34         MsgBox("INVALID PIN number!!!")
35         Exit While
36     End If
37     i += 1
38 End While
39 currentrow = i
40 End Sub
41
42 References
43 Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click
44     Form1.Show()
45     Me.Close()
46 End Sub
47
48 References
49 Private Sub Button13_Click_1(sender As Object, e As EventArgs) Handles Button13.Click
50     TextBox1.Text = ""
51     TextBox1.Clear()
52 End Sub
53
54 References
55 Private Sub btn1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btn1.Click, btn9.Click, btn8.Click, btn7.Click,
56     TextBox1.Text = TextBox1.Text & sender.text
57 End Sub
58 End Class

```

Form3 (Main-Menu):

```

1 Imports System.Data.SqlClient
2 Imports System.Data
3
4 Public Class Form3
5     Dim inc As Integer
6     Dim con As New OleDb.OleDbConnection
7     Dim dbprovider, dbsource As String
8     Dim ds As New DataSet
9     Dim da As New OleDb.OleDbDataAdapter
10    Dim sql As String
11    Dim maxrows, i, currentrow As Integer
12
13    References
14    Private Sub Form3_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
15        dbprovider = "Provider=Microsoft.Jet.OLEDB.4.0;"
16        dbsource = "Data Source=C:\Users\Atul\Desktop\Final Project (ATM)\ATM\ATM\Resources\atm.mdb"
17
18        con.ConnectionString = dbprovider & dbsource
19        con.Open()
20        sql = "SELECT * FROM master"
21
22        da = New OleDb.OleDbDataAdapter(sql, con)
23        da.Fill(ds, "atm")
24        maxrows = ds.Tables("atm").Rows.Count
25        i = 0
26
27        While i <> maxrows + 1
28            If Label1.Text = ds.Tables("atm").Rows(i)("acc_no") Then
29                Label4.Text = ds.Tables("atm").Rows(i)("cust_name")
30
31                Form4.Label1.Text = ds.Tables("atm").Rows(i)("cust_name")
32                Form4.Label2.Text = ds.Tables("atm").Rows(i)("acc_no")
33                Form6.Label1.Text = ds.Tables("atm").Rows(i)("cust_name")
34                Form6.Label2.Text = ds.Tables("atm").Rows(i)("acc_no")
35            End If
36            i += 1
37        End While
38    End Sub
39 End Class

```


ATM – Automated Teller Machine

```
03.Mainmenu.vb X
ATM Form3 inc
32 Form4.Label11.Text = ds.Tables("atm").Rows(i)("cust_name")
33 Form4.Label2.Text = ds.Tables("atm").Rows(i)("acc_no")
34 Form6.Label11.Text = ds.Tables("atm").Rows(i)("cust_name")
35 Form6.Label2.Text = ds.Tables("atm").Rows(i)("acc_no")
36 Form7.Label4.Text = ds.Tables("atm").Rows(i)("cust_name")
37 Form7.Label2.Text = ds.Tables("atm").Rows(i)("acc_no")
38 Form8.Label4.Text = ds.Tables("atm").Rows(i)("cust_name")
39 Form8.Label5.Text = ds.Tables("atm").Rows(i)("acc_no")
40 Form11.Label10.Text = ds.Tables("atm").Rows(i)("cust_name")
41 Form11.Label12.Text = ds.Tables("atm").Rows(i)("acc_no")
42 Form12.Label7.Text = ds.Tables("atm").Rows(i)("cust_name")
43 Form12.Label6.Text = ds.Tables("atm").Rows(i)("acc_no")
44
45 Exit While
46 ElseIf i = maxrows Then
47     MsgBox("ADMIN USER")
48     Exit While
49 End If
50 i += 1
51 End While
52 currentrow = i
53
54 End Sub
55
56 References
57 Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click
58     Me.Close()
59     Form6.Show()
60 End Sub
61
62 References
63 Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
64     Me.Close()
65     Form4.Show()
66 End Sub
67
68 References
69
100% No issues found
```

```
03.Mainmenu.vb X
ATM Form3 inc
65
66 References
67 Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
68     Me.Close()
69     Form7.Show()
70 End Sub
71
72 References
73 Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
74     Me.Close()
75     Form8.Show()
76 End Sub
77
78 References
79 Private Sub Button6_Click(sender As Object, e As EventArgs) Handles Button6.Click
80     Me.Close()
81     Form12.Show()
82 End Sub
83
84 References
85 Private Sub Button7_Click(sender As Object, e As EventArgs) Handles Button7.Click
86     Me.Close()
87     Form2.Show()
88 End Sub
89
90 References
91 Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click
92     Me.Close()
93 End Sub
94
95 References
96 Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
97     Me.Close()
98     Form11.Show()
99 End Sub
100 End Class
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102 References
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Advantages & Disadvantages

Advantage:

- You don't have to carry cash around with you.
- You can withdraw cash at any time, day or night. The banks don't need to be open.
- ATMs offer the convenience of multiple locations. You can withdraw cash at any bank that is part of the system to which your ATM card is linked.
- Your ATM card is protected by a PIN, keeping your money safe.
- You don't need to fill out withdrawal and deposit slips as is required at the bank.
- ATMs are faster than going to the bank—no long lines.
- You can withdraw cash at ATMs in foreign countries.

Disadvantage:

- ATM may be off-line (system down).
- If you forget your PIN number you cannot use the card.
- Risk of robbery when you leave the ATM.
- The ATM can break down or run out of cash.
- Fees charged to use ATMs of other banks can become expensive.

Features

- Transfer funds between linked bank accounts
- Receive account balance
- Prints recent transactions list
- Change your pin
- Deposit your cash
- Prepaid mobile recharge
- Bill payments
- Cash withdrawal
- Perform a range of features in your foreign language.

Working

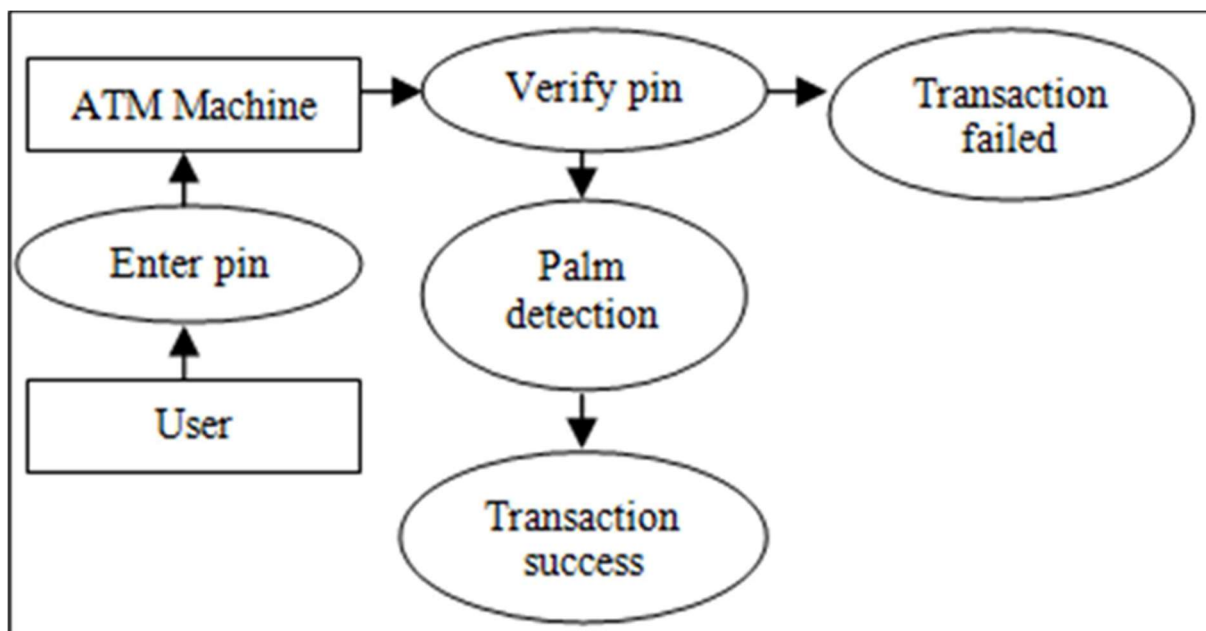
The automated teller machine is simply a data terminal with two inputs and four output devices. These devices are interfaced with the processor. The processor is the heart of the ATM. All the ATMs working around the world are based on a centralized database system. The ATM has to connect and communicate with the host processor (server). The host processor is communicating with the internet service provider (ISP). It is the gateway through all the ATM networks available to the cardholder.

When a cardholder wants does an ATM transaction, the user provides necessary information through card reader and keypad. The ATM forwards this information to the host processor. The host processor enters the transaction request to the cardholder bank. If the cardholder requests the cash, the host processor takes the cash from the

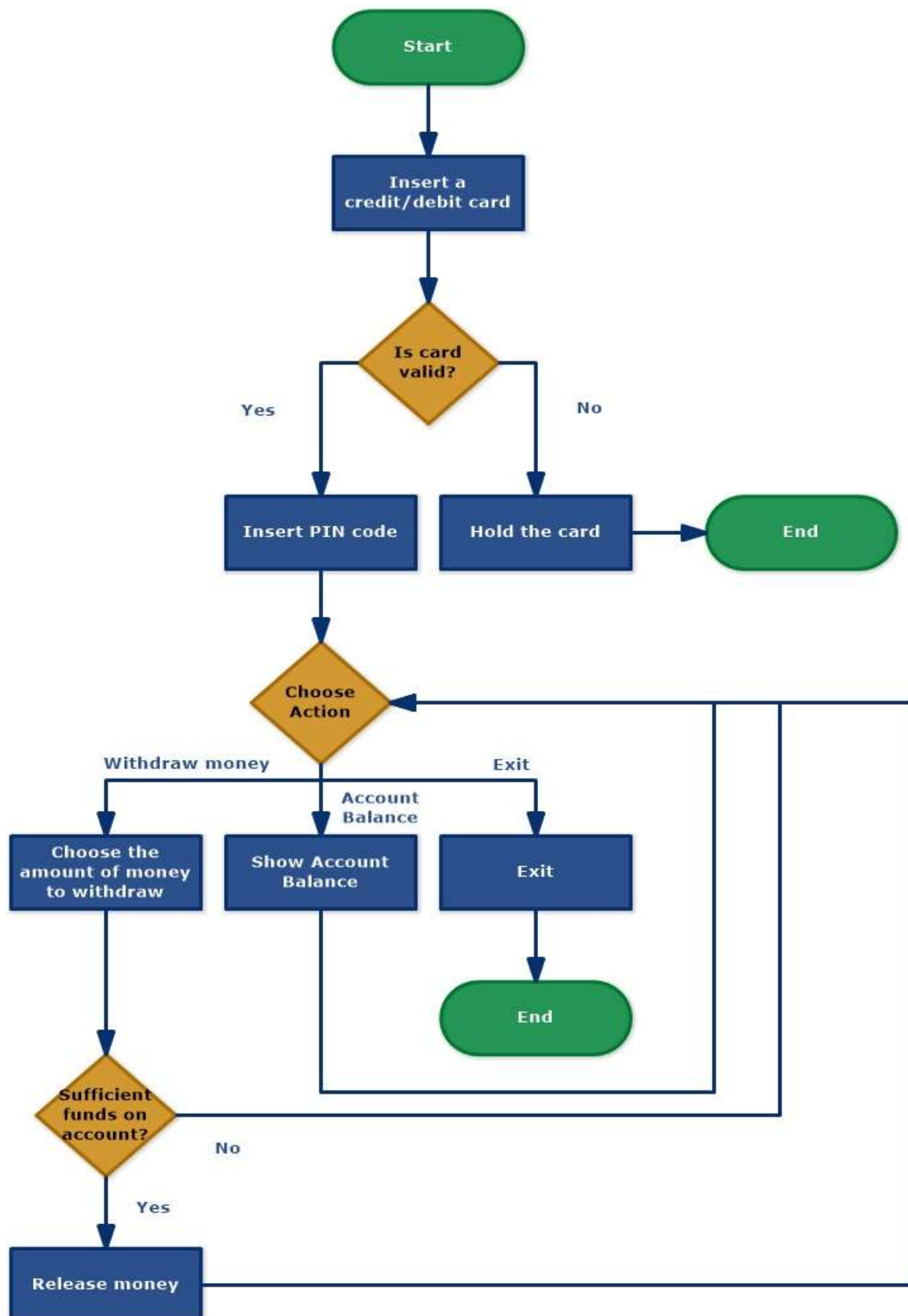
cardholder account. Once the funds are transferred from the customer account to the host processor bank account, the processor sends the approval code to the ATM and the authorized machine to dispense the cash. This is the way to get the amount on ATMs. The ATM network is fully based on a centralized database environment. This will make life easier and secure the cash.

Diagrams

Block Diagram:



Flow Chart:



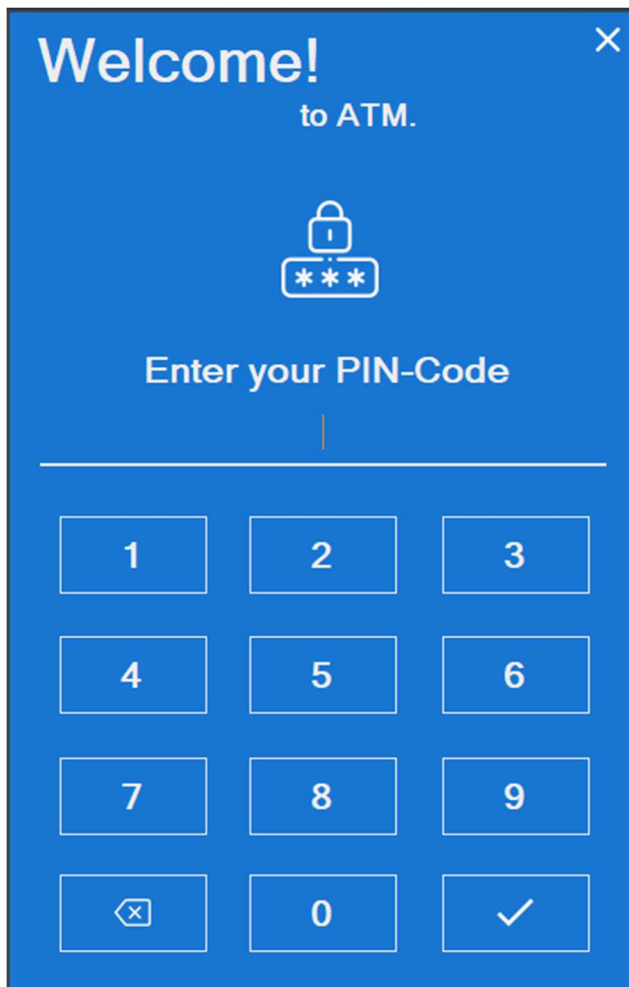
Front-End Outputs

Form 1 (Welcome):



A light gray dialog box with a close button (X) in the top right corner. The text "Welcome!" is displayed in a large, bold font, followed by "to ATM." in a smaller font. Below the text is a button labeled "Let's Go." with a right-pointing arrow icon.

Form 2 (Enter Pin):



A blue dialog box with a close button (X) in the top right corner. The text "Welcome!" is displayed in a large, bold font, followed by "to ATM." in a smaller font. Below the text is a lock icon and a PIN input field with three asterisks. The text "Enter your PIN-Code" is displayed below the input field. A horizontal line separates the input field from a numeric keypad. The keypad consists of buttons for digits 1 through 9, 0, a backspace button (X), and a confirmation button (checkmark).

Form 3 (Main-Menu):

ATM

Logout

Main-Menu

Name : Atul Ac.No. : 2773

Balance Inquiry

Cash Withdrawal

Fast Cash

Fund Transfer

Change PIN

Services

Form 11 (Balance Enquiry):

← ATM ×

Balance Enquiry

Name : Atul Ac.No. : 2773

	dateoftrans	transtype	amtWD	prevamt	curramt
▶	06-09-2020 22:22	Current	512	109212	108700
	07-09-2020 14:42	Current	5000	1838733	1833733
	08-09-2020 22:21	Current	500	1733499	1732999
	08-09-2020 23:52	Current	5112	1732999	1727887
	09-09-2020 00:03	Current	52454	1672887	1620433

Proceed

Form 5 (Cash Withdrawal):

The screenshot shows a mobile application window titled "ATM" with a green header bar. The main title is "Cash Withdrawal". Below the title, the user's name "Atul" and account number "2773" are displayed. The prompt "Enter the Amount Withdrawn :" is followed by a text input field. A modal dialog box titled "ATM" is open, displaying "Amount Withdrawn" and an "OK" button. At the bottom of the screen, there are two buttons: "Clear" and "Proceed".

Form 7 (Fast Cash):

The screenshot shows a mobile application window titled "ATM" with a blue header bar. The main title is "Fast Cash". Below the title, the user's name "Atul" and account number "2773" are displayed. The prompt "Please select the Amount" is followed by six buttons arranged in a 2x3 grid: "500", "10,000", "20,000", "5,000", and "40,000". The "20,000" button is highlighted with a blue border. A modal dialog box titled "ATM" is open, displaying "Daily Transaction Updated" and an "OK" button.

Form 10 (Fund Transfer):

← ATM ×

Fund Transfer

Name : Atul Ac.No. : 2773

Please enter the Account Number : 2774

Please enter the Amount to Transfer : 6000

ATM ×

Amount Transferred

OK

Proceed

Form 6 (Change PIN):

← ×

Change PIN

Name : Atul Ac.No. : 2773

Enter old PIN : ● ● ● ●

Enter new PIN : ● ● ● ●

Confirm new PIN : ● ● ● ●

Proceed

Form 12 (Services):

ATM

✕

Hello there!

I'm Atul. And this is my final year project. In which have I used many forms to represent working of ATM machine.

For "ATM Service and Query" I request you to mail me at "atuljoshi94170@gmail.com".

More Details :

Name : Atul Joshi

PU Pin : 17048593

Class : BCA-III (6th Sem.)

Subject : Project (VB .net)

Main-Menu

Back-End Outputs

Database 1 (Dailytrans):

dateoftrans	acc_r	cust_name	transtype	amtWD	prevamt	curramt
06-09-2020 22:22:06	2776	Urvi	Current	\$512.00	\$1,10,234.00	\$1,09,722.00
06-09-2020 22:22:14	2775	Dimple	Current	\$510.00	\$1,09,722.00	\$1,09,212.00
06-09-2020 22:22:18	2773	Atul	Current	\$512.00	\$1,09,212.00	\$1,08,700.00
07-09-2020 10:22:10	2775	Dimple	Current	\$500.00	\$18,91,300.00	\$18,90,800.00
07-09-2020 10:55:06	2774	Anisha	Current	\$5,000.00	\$18,89,800.00	\$18,84,800.00
07-09-2020 14:42:42	2776	Urvi	Current	\$512.00	\$18,39,800.00	\$18,39,288.00
07-09-2020 14:42:49	2775	Dimple	Current	\$555.00	\$18,39,288.00	\$18,38,733.00
07-09-2020 14:42:58	2773	Atul	Current	\$5,000.00	\$18,38,733.00	\$18,33,733.00
07-09-2020 14:43:58	2774	Anisha	Current	\$5,112.00	\$18,33,733.00	\$18,28,621.00
07-09-2020 19:58:02	2776	Urvi	Current	\$5,122.00	\$18,28,621.00	\$18,23,499.00
08-09-2020 22:21:41	2773	Atul	Current	\$500.00	\$17,33,499.00	\$17,32,999.00
08-09-2020 22:25:02	2775	Dimple	Current	\$5,000.00	\$34,000.00	\$29,000.00
08-09-2020 22:25:16	2774	Anisha	Current	\$5,00,134.00	\$40,000.00	\$4,60,134.00
08-09-2020 23:52:41	2773	Atul	Current	\$5,112.00	\$17,32,999.00	\$17,27,887.00
09-09-2020 00:03:09	2773	Atul	Current	\$52,454.00	\$16,72,887.00	\$16,20,433.00
09-09-2020 01:03:41	2774	Anisha	Current	\$54,424.00	\$4,60,134.00	\$4,59,59,030.00
09-09-2020 01:52:49	2775	Dimple	Current	\$67.00	\$9,29,00,024.00	\$9,28,99,957.00
09-09-2020 14:54:24	2773	Atul	Current	\$50,00,000.00	\$16,20,433.00	\$33,79,567.00
09-09-2020 14:57:39	2777	Aman	Current	\$12,01,210.00	\$41,11,611.00	\$29,10,401.00
09-09-2020 15:07:23	2774	Anisha	Current	\$500.00	\$4,58,37,530.00	\$4,58,37,030.00
09-09-2020 15:07:28	2774	Anisha	Current	\$500.00	\$4,58,37,030.00	\$4,58,36,530.00
09-09-2020 15:10:46	2776	Urvi	Current	\$1,000.00	\$2,00,00,069.00	\$1,99,99,069.00
09-09-2020 15:12:15	2778	Sachin	Current	\$5,000.00	\$1,14,47,502.00	\$1,14,42,502.00
09-09-2020 15:15:23	2777	Aman	Current	\$40,000.00	\$28,70,401.00	\$28,30,401.00
09-09-2020 15:15:42	2779	Surya	Current	\$1,000.00	\$74,54,121.00	\$74,53,121.00

Database 2 (Master):

acc_no	cust_name	address	mobile_no	occp	dateopenec	acc_type	amnt	pin	Click to Add
2773	Atul	Chandigarh	9942406449	Student	10-10-2010	Saving	65305748	1123	
2774	Anisha	Goa	9588552509	Student	12-12-2010	Saving	45760530	1124	
2775	Dimple	Chandigarh	9003459436	Student	18-10-2010	Saving	92889953	1125	
2776	Urvi	Abu Dhabi	9585180552	Student	20-11-2010	Current	19999069	1126	
2777	Aman	Haryana	9531154750	Student	18-09-2020	Current	2830401	1127	
2778	Sachin	Panchkula	9887445129	Computer Ope	05-09-2020	Saving	11442502	1128	
2779	Surya	HP	8454511427	Legit	04-09-2020	Current	7443121	1129	
2780	Apoorv	UP	9445622151	Employee	08-04-2020	Saving	44507010	1130	
2781	Rahul M.	Chandigarh	9887777741	Developer	12-08-2020	Current	511072306	1131	
2782	Nikhil	HP	9744122154	Student	27-09-2020	Saving	22437952	1132	
2783	Sumit	Baltana	8445137511	Student	30-09-2020	Current	45212557	1133	
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THANK YOU