

ATM Management System



Department of Computer Science and Engineering
Bangladesh University of Business and Technology
(BUBT)
Mirpur-02

21 March, 2022

ATM Management System

A project

Submitted to the Department of Computer Science and Engineering
Bangladesh University of Business and Technology (BUBT), Dhaka

In partial fulfillment of requirements

For the Software Development 2

of

Bachelor of Science

In

Computer Science and Engineering

By

Tunazzinur Rahman Kabbo (19202103268)

Md. Zobayer Hasan Nayem (19202103274)

Nayema Khatun (19202103245)

Rubaitul Jannat (19202103249)

Intake 44, Section-07

SUPERVISED BY

Shovon Roy

Lecturer,

Department of Computer Science and Engineering (CSE)
Bangladesh University of Business and Technology (BUBT)

Mirpur-2, Dhaka-1216, Bangladesh

Abstract

We hereby declare that the project entitled “**ATM Management System**” submitted in partial fulfillment by us for the degree B.Sc. Engineering in Computer Science and Engineering in the faculty of Computer Science and Engineering of Bangladesh University of Business and Technology (BUBT) under the guidance of our supervision of Shovon Roy, Lecturer, department of Computer Science and Engineering is our own work and it contains no material which has been accepted for the award to the candidates of any other disciplines expect few references which is taken from various books and authors to enrich our knowledge about the topic of our project.

Tunazzinur Rahman Kabbo
ID: 19202103268

Md. Zobayer Hasan Nayem
ID: 19202103274

Nayema Khatun
ID: 19202103245

Rubaiatul Jannat
ID: 19202103249

Certificate

That is to certify that Tunazzinur Rahman Kabbo, Md. Zobayer Hasan Nayem and Nayema Khatun and also Rubaiatul Jannat students of B.Sc. in CSE has completed their project work titled “**ATM Management System**” satisfactorily in partial fulfillment for the requirements of B.Sc. in Computer Science and Engineering from Bangladesh University of Business and Technology in the year December, 2021.

Tunazzinur Rahman Kabbo
ID: 19202103268

Md. Zobayer Hasan Nayem
ID: 19202103274

Nayema Khatun
ID: 19202103245

Rubaiatul Jannat
ID: 19202103249

Project Supervisor:

Shovon Roy

Lecturer,

Department of CSE

Bangladesh University of Business and Technology

DEDICATION

Dedicated to our parents for all their love and inspiration.

ACKNOWLEDGEMENT

“When a task is completed successful” makes everyone happy. But the happiness will be gold without glitter if we didn’t state the persons who have supported us to make it a success. Success will be crowned to people who made it a reality but the people whose constant guidance and encouragement made it possible will be crowned first on the eve of success. This acknowledgment transcends the reality of formality when we would like to express deep gratitude and respect to all those people behind the screen who guided, inspired and helped me for the completion of our project work. We consider ourselves lucky enough to get such a good project. This project would add as an asset to our academic profile. We express our gratitude to the help of our supervisor **Shovon Roy**, for his constant supervision, guidance and co-operation throughout the project and for giving constant motivation and valuable help through the project work.

We extend our sincere gratitude to our parents who have encouraged us with their blessings to do this project successfully. Finally, we would like to thank to all our friends, all the teaching and non-teaching staff members of the CSE Department, for all the timely help, ideas and encouragement which helped throughout in the completion of project.

Approval

This project “**ATM Management System**” submitted by Tunazzinur Rahman Kabbo, Md. Zobayer Hasan Nayem, Nayema Khatun and Rubaiatul Jannat who belong ID No. sequentially 19202103268, 19202103274, 19202103245, 19202103249 students of B.Sc. in Computer Science and Engineering from Bangladesh University of Business and Technology in the year March, 2022 under the supervision of Shovon Roy, Lecturer, Department of Computer Science and Engineering has been accepted as satisfactory for the partial fulfillment for the requirements of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

Project Supervisor:

Shovon Roy

Lecturer,

Department of CSE

Bangladesh University of Business and Technology

COPYRIGHT

© Copyright by Tunazzinur Rahman Kabbo (19202103268), Md. Zobayer Hasan Nayem (19202103274), Nayema Khatun (19202103245) and Rubaiatul Jannat (19202103249).

LIST OF FIGURES

Figure-1 : Splash Screen	15
Figure-2 : Main Menu.....	15
Figure-3 : Registration.....	16
Figure-4 : Registration For Bank.....	16
Figure-5 : Registration For Card.....	17
Figure-6 : Login.....	17
Figure-7 : User Dashboard.....	18
Figure-8 : User Withdraw.....	18
Figure-9 : User Transfer.....	19
Figure-10: User Bill Pay.....	19
Figure-11: User Payment.....	20
Figure-12: User Crypto Currency.....	20
Figure-13: User Add Money.....	21
Figure-14: User Donation.....	21
Figure-15 :Update Pin.....	22
Figure-16: Update Profile.....	22

Admin Figure

Figure-1 : Admin Captcha.....	23
Figure-2 : Admin Login.....	23
Figure-3 : Admin Unblocking Splash Screen.....	24
Figure-4 : Admin Dashboard.....	24
Figure-5 : Admin Show Registration bank.....	25
Figure-6 : Admin Show Registration Card.....	25
Figure-7 : Admin Show Transfer History.....	26
Figure-8 : Admin Block and Unblocking.....	26
Figure-9 : Admin Block Card User.....	27
Figure-10: Admin Unblock Card User.....	27
Figure-11: Admin Block Bank User.....	28
Figure-12: Admin Unblock Bank User.....	28
Figure-13: Admin Update Dollar Rate.....	29
Figure-14: Admin Update Cryptocurrency Rate.....	29
Figure-15: Admin Update Billing System.....	30
Figure-16: Admin Show all Donation History.....	30
Figure-17: Admin Show Payment History;;.....	31

Introduction.....	11
2. Project Review.....	11
2.1 Problem Statement.....	11
2.2 Objective of this project.....	11
2.3 Feature of this project.....	12
3. Technologies.....	12
3.1 Software.....	12
3.1.1 Visual studio.....	12
3.1.2 Xampp.....	13
3.1.3 mysql-connector-net-8.0.23.....	13
3.2 Programming Language.....	13
3.2.1 C# Language.....	13
3.3 Software framework.....	13
3.3.1 The .NET framework.....	13
4. System Analysis	14
4.1 System user analysis.....	14
4.1.1 Admin Panel.....	14
4.1.2 Student Panel.....	14
5. Access System.....	15
5.1 User Panel.....	15
5.2 Admin Panel.....	23
6. Diagram.....	32
6.1 schema diagram.....	32
6.2 ER Diagram	33
7. Future work	34
8. Conclusion	34
9. Reference	34

1. Introduction

With many banks and financial institutions closing their physical doors and reducing staff levels to save costs, ATMs are becoming a vital part of the way customers transact. Even with the global shift to mobile and online banking, and predictions of an eventually cashless society, ATMs are still seen as an essential service. The convenience of an ATM allows consumers to perform quick self-service transactions like depositing and withdrawing cash, bill payment and transfers between accounts.

However, with massive advances in software and hardware, an ATM is not just for depositing and withdrawing. Today's ATMs are more complex and multi-dimensional. Often, they use software and hardware from various vendors and communicate with different services, and more than one network, providing a broader range of transactions.

1. Project Review

1.1 Problem Statement

We developed a software that why people are easily using his payment system. They can easily deposit his money, transfer his money, also he can buy cryptocurrency, he can easily exchange BDT to USD. he can check daily Cryptocurrency Rate.

2.2 Objective of the Project

We were looking for a project to select that didn't match the other groups. The **"ATM Management System"** got the idea while searching for the project in internet. There we saw a lot of complete projects but they were in another high-level language. There were no such projects using C# language. And then we decided that we would complete this project using C# language. By the end of this project, the basics in C# language have become clearer. The mentality of developing software and working in a team has been created. By completing the project, we learned some of the functions of C# language that were unknown to us.

2.3 Features of Project

1. Splash Screen.
2. Main Menu.
3. Easy Bank account Registration.
4. Easy Card account Registration.
5. Registration Bonus 500 BDT.
6. Easy use this system
7. Responsive User Design
8. Easy Transaction System
9. Easy Exchange BDT To USD.
10. Easy Buy Cryptocurrency
11. Responsive Admin Panel.

3. Technology

3.1 Software

3.1.1 Visual Studio Community

Visual Studio is an Integrated Development Environment (IDE) developed by Microsoft to develop GUI (Graphical User Interface), console, Web applications, web apps, mobile apps, cloud, and web services, etc. With the help of this IDE, you can create managed code as well as native code. It uses the various platforms of Microsoft software development software like Windows store, Microsoft Silverlight, and Windows API, etc. It is not a language-specific IDE as you can use this to write code in C#, C++, VB(Visual Basic), Python, JavaScript, and many more languages. It provides support for 36 different programming languages. It is available for Windows as well as for macOS.

3.1.2 Xampp

XAMPP is a cross-platform web server that is free and open-source. XAMPP is a short form for Cross-Platform, Apache, MySQL, PHP, and Perl. XAMPP is a popular cross-platform web server that allows programmers to write and test their code on a local webserver. It was created by Apache Friends, and the public can revise or modify its native source code. It includes MariaDB, Apache HTTP Server, and interpreters for PHP and Perl, among other computer languages. Because of XAMPP's simplicity of deployment, a developer can quickly and easily install a WAMP or LAMP stack on an operating system, with the added benefit that common add-in apps like WordPress and Joomla can also be loaded.

3.1.3 mysql-connector-net-8.0.2

MySQL Connector/NET 8.0.23 is the latest General Availability release of the MySQL Connector/NET 8.0 series. This version supports .NET 5.0 and the X Dev API, which enables application developers to write code that combines the strengths of the relational and document models using a modern, NoSQL-like syntax that does not assume previous experience writing traditional SQL.

3.2 Programming Language

3.2.1 C# Language

C# (pronounced "See Sharp") is a modern, object-oriented, and type-safe programming language. C# enables developers to build many types of secure and robust applications that run in .NET. C# has its roots in the C family of languages and will be immediately familiar to C, C++, Java, and JavaScript programmers. This tour provides an overview of the major components of the language in C# 8 and earlier. If you want to explore the language through interactive examples, try the introduction to C# tutorials. C# is an object-oriented, **component-oriented** programming language. C# provides language constructs to directly support these concepts, making C# a natural language in which to create and use software components.

Since its origin, C# has added features to support new workloads and emerging software design practices. At its core, C# is an **object-oriented** language. You define types and their behavior.

3.3. Software framework

3.3.1 The .NET Frame Work

.NET is a framework to develop software applications. It is designed and developed by Microsoft and the first beta version released in 2000. It is used to develop applications for web, Windows, phone. Moreover, it provides a broad range of functionalities and support. This framework contains a large number of class libraries known as Framework Class Library (FCL). The software programs written in .NET are executed in the execution environment, which is called CLR (Common Language Runtime). These are the core and essential parts of the .NET framework. This framework provides various services like memory management, networking, security, memory management, and type-safety.

4. System Analysis

4.1 System user analysis

4.1.1 Admin Panel

ADMIN In the admin panel, the admin can log in to the software using a special username & password. From the admin panel, an admin can view all data, insert any data, change/update any data, and also can delete any data from the database.

4.1.2 User Panel

In the user panel, the user has to register with some personal Information and then he/she can login to the software using the Username and password. Then he/she can only view his/her needed Data.

5. Access System

1. Splash Screen

Before starting the software, an animated splash screen will be shown. It will make sense about ATM Management System.



Figure: 1. Splash Screen

2. Main Menu

From the main menu, the user and the admin both of them will register, show credit, go admin panel and also could login

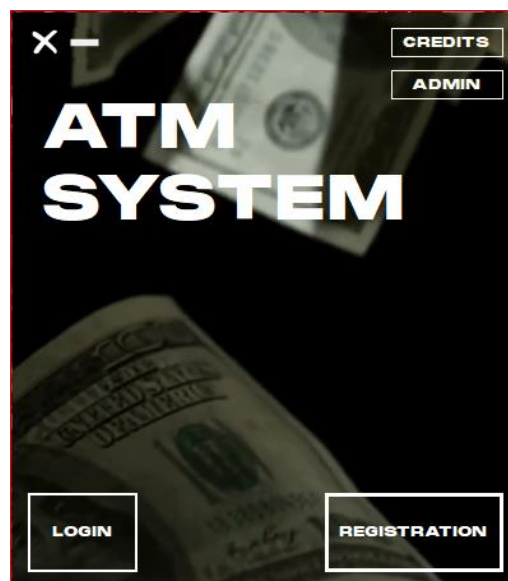
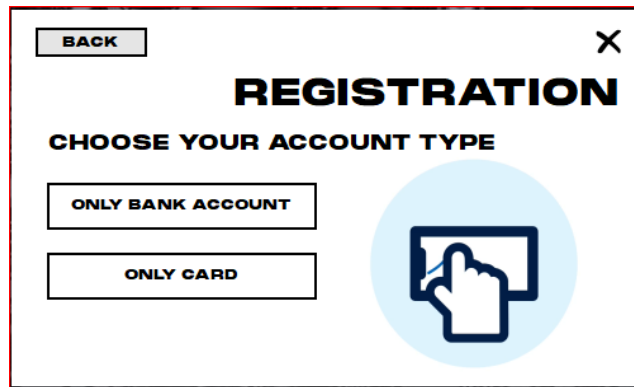


Figure :02. Main Menu

3.Registration

From the registration page, the admin and the user could create an account (bank acc or card) to give some personal information. Besides for backup, admin will show the whole info from the saved file in Database. After creating an account user will get 500 BDT in his/her account automatically.

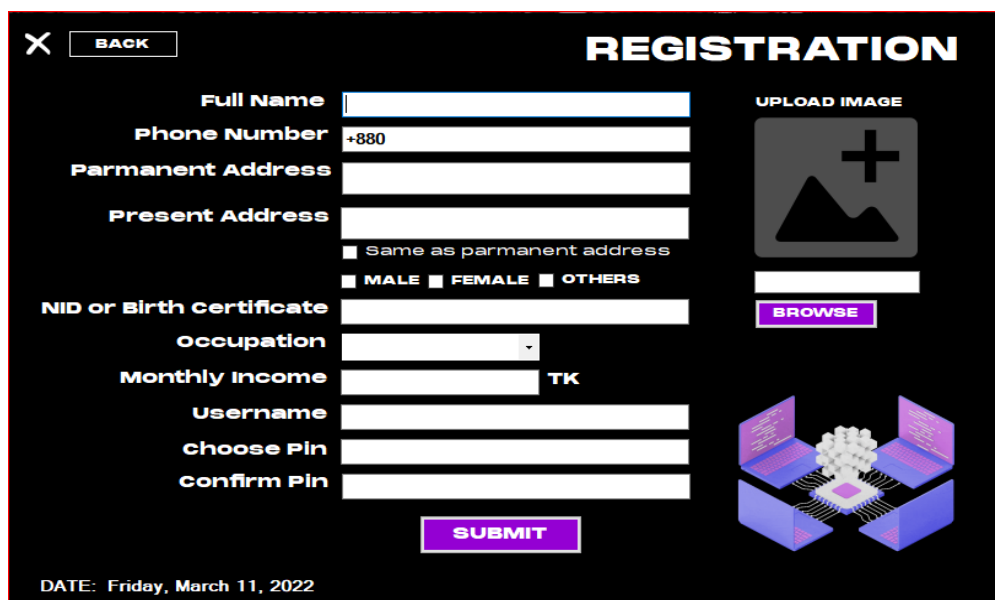


The image shows a mobile app registration screen. At the top left is a 'BACK' button and a close 'X' icon. The title 'REGISTRATION' is centered at the top. Below it, the instruction 'CHOOSE YOUR ACCOUNT TYPE' is displayed. There are two buttons: 'ONLY BANK ACCOUNT' and 'ONLY CARD'. To the right of these buttons is a circular icon showing a hand pointing at a screen.

Figure: 03. Registration

4. Registration Bank Account

From the registration page, the admin and the user could create a bank account to give some personal information. Besides for backup, admin will show the whole info from the saved file in Database.

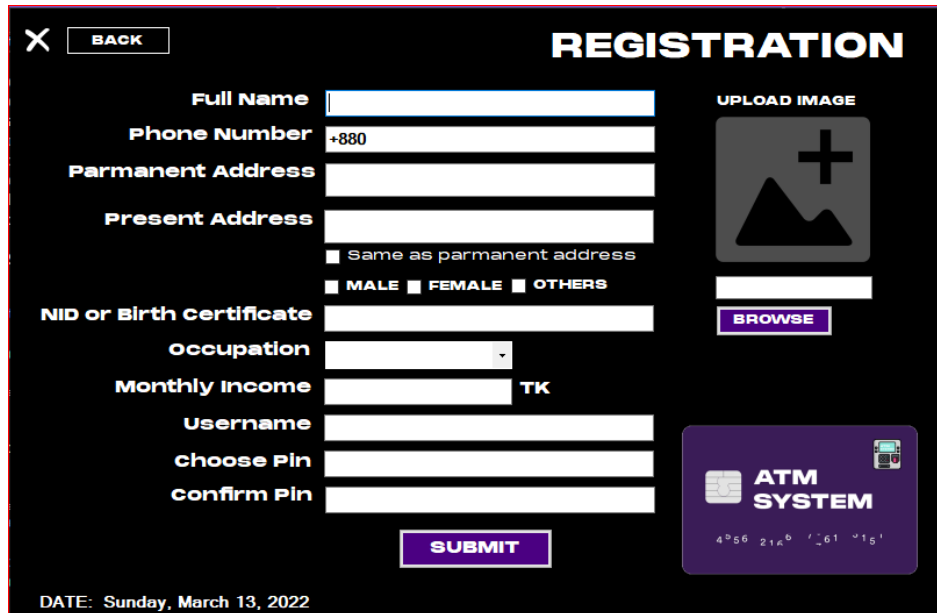


The image shows a detailed registration form for a bank account. It has a dark theme. At the top left is a 'BACK' button and a close 'X' icon. The title 'REGISTRATION' is centered at the top. The form is divided into two main sections. The left section contains the following fields: 'Full Name' (text input), 'Phone Number' (text input with '+880' prefix), 'Parmanent Address' (text input), 'Present Address' (text input), a checkbox for 'Same as parmanent address', radio buttons for 'MALE', 'FEMALE', and 'OTHERS', 'NID or Birth Certificate' (text input), 'Occupation' (dropdown menu), 'Monthly Income' (text input with 'TK' suffix), 'Username' (text input), 'choose Pin' (text input), and 'confirm Pin' (text input). The right section is titled 'UPLOAD IMAGE' and contains a large square button with a plus sign and a mountain icon, a 'BROWSE' button, and a 3D illustration of a laptop and a server. At the bottom center is a 'SUBMIT' button. At the bottom left, it says 'DATE: Friday, March 11, 2022'.

Figure: 04. Registration Bank Account

5. Registration Card Account

From the registration page, the admin and the user could create a card account to give some personal information. Besides for backup, admin will show the whole info from the saved file in Database.



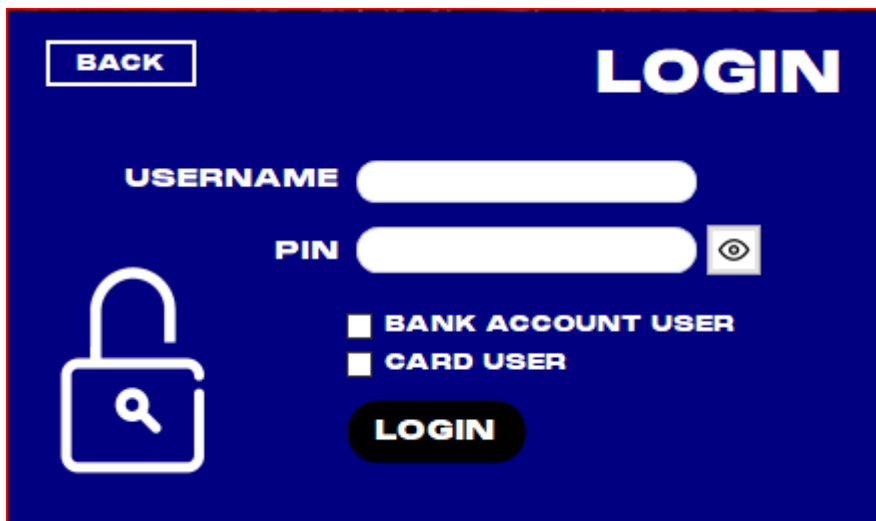
The registration form is titled "REGISTRATION" and includes a "BACK" button in the top left. It contains the following fields and options:

- Full Name**: Text input field.
- Phone Number**: Text input field with a "+880" prefix.
- Permanent Address**: Text input field.
- Present Address**: Text input field.
- ☐ Same as permanent address
- ☐ MALE ☐ FEMALE ☐ OTHERS
- NID or Birth Certificate**: Text input field.
- Occupation**: Dropdown menu.
- Monthly Income**: Text input field with a "TK" unit.
- Username**: Text input field.
- Choose Pin**: Text input field.
- Confirm Pin**: Text input field.
- UPLOAD IMAGE**: Section with a placeholder image and a "BROWSE" button.
- ATM SYSTEM**: A graphic of an ATM card with the text "ATM SYSTEM" and a small icon of an ATM.
- SUBMIT**: Button at the bottom center.
- DATE: Sunday, March 13, 2022**: Text at the bottom left.

Figure: 05. Registration Card Account

6. Login

From the registration page anyone will get a button for login. Only they could login who have registered before.



The login form is titled "LOGIN" and includes a "BACK" button in the top left. It contains the following fields and options:

- USERNAME**: Text input field.
- PIN**: Text input field with an eye icon for toggling visibility.
- ☐ BANK ACCOUNT USER
- ☐ CARD USER
- LOGIN**: Button at the bottom center.
- Lock Icon**: A large padlock icon on the left side of the form.

Figure: 06. Login

7. User Dashboard

After login as user, you will get these options (withdraw, transfer, bill pay, payment, crypto currency, add money, fast loan, donation, update profile).

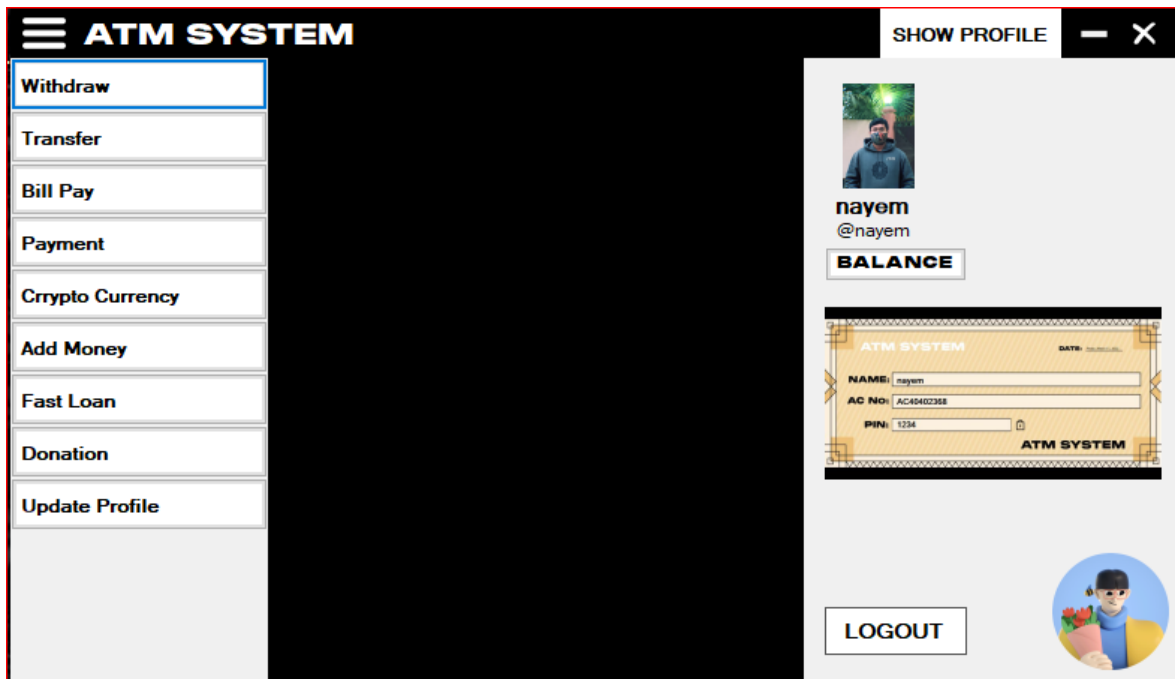


Figure: 07. User Dashboard

8. Withdraw

Users could withdraw any amount of currency when they want. But if they do have not a sufficient amount then he/she will get an alert message and could not transact.

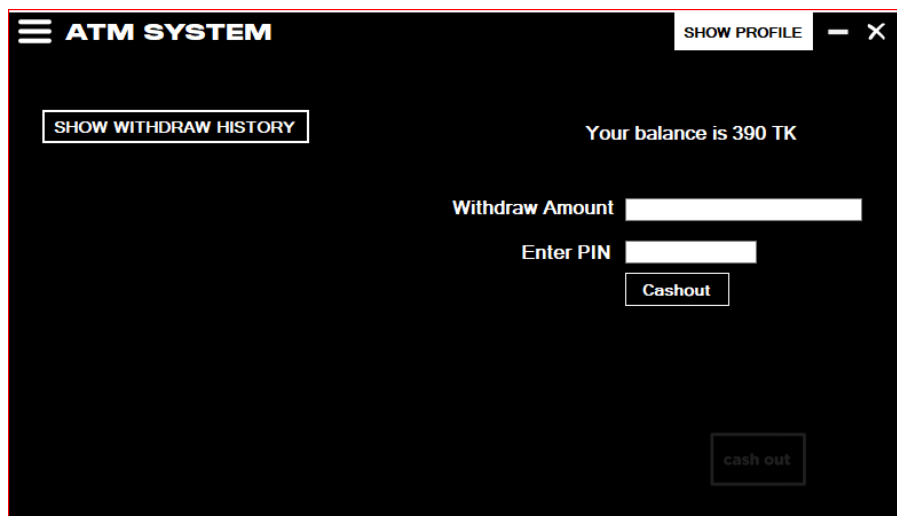
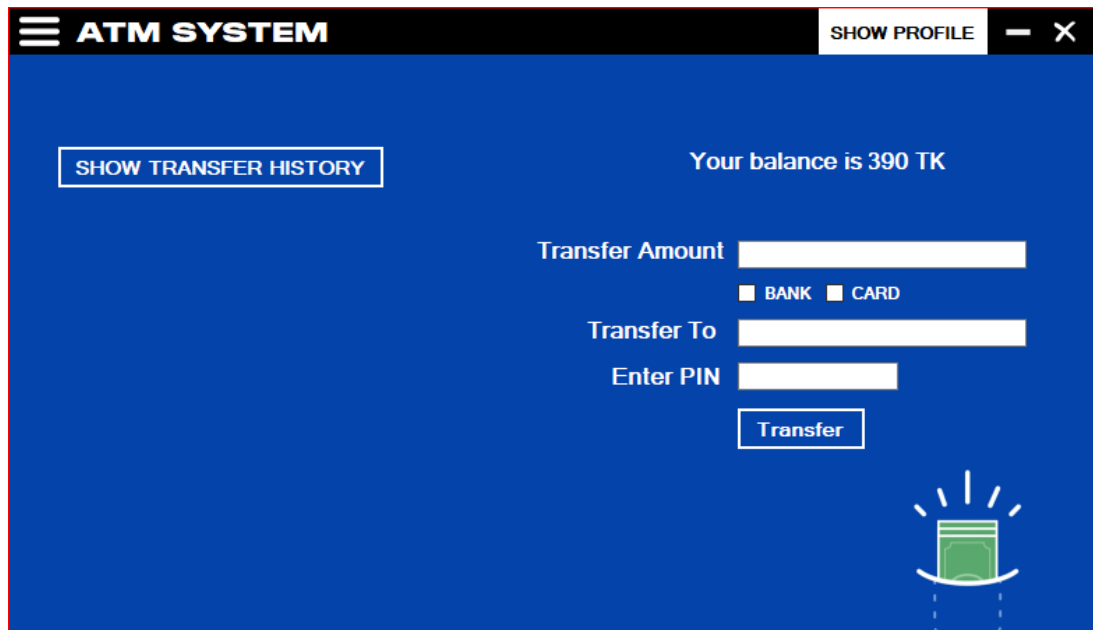


Figure: 08. Withdraw

9. User Transferer

The User could transfer at any time the valid currency to any type of account

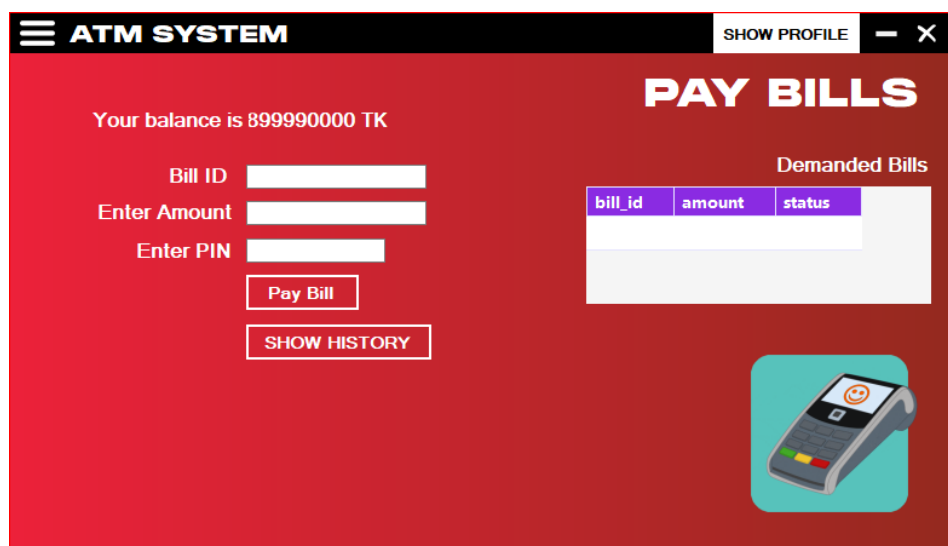


The screenshot shows a web application titled "ATM SYSTEM" with a navigation bar containing a menu icon, the title, a "SHOW PROFILE" button, and window control icons. The main interface has a blue background. On the left, there is a button labeled "SHOW TRANSFER HISTORY". On the right, the user's balance is displayed as "Your balance is 390 TK". Below this, there are input fields for "Transfer Amount", "Transfer To", and "Enter PIN". Between the "Transfer Amount" and "Transfer To" fields, there are two radio buttons labeled "BANK" and "CARD". A "Transfer" button is located below the "Enter PIN" field. In the bottom right corner, there is an illustration of a green banknote being inserted into an ATM slot.

Figure: 09. User Transferer

10. Bill Pay

The user will pay any type of bill from here. Such as University bills, shopping bills, current bills, restaurant bills, etc.



The screenshot shows a web application titled "ATM SYSTEM" with a navigation bar containing a menu icon, the title, a "SHOW PROFILE" button, and window control icons. The main interface has a red background. On the left, the user's balance is displayed as "Your balance is 899990000 TK". Below this, there are input fields for "Bill ID", "Enter Amount", and "Enter PIN". A "Pay Bill" button is located below the "Enter PIN" field, and a "SHOW HISTORY" button is below it. On the right, the title "PAY BILLS" is displayed. Below it, there is a section titled "Demedanded Bills" (sic) which contains a table with the following structure:

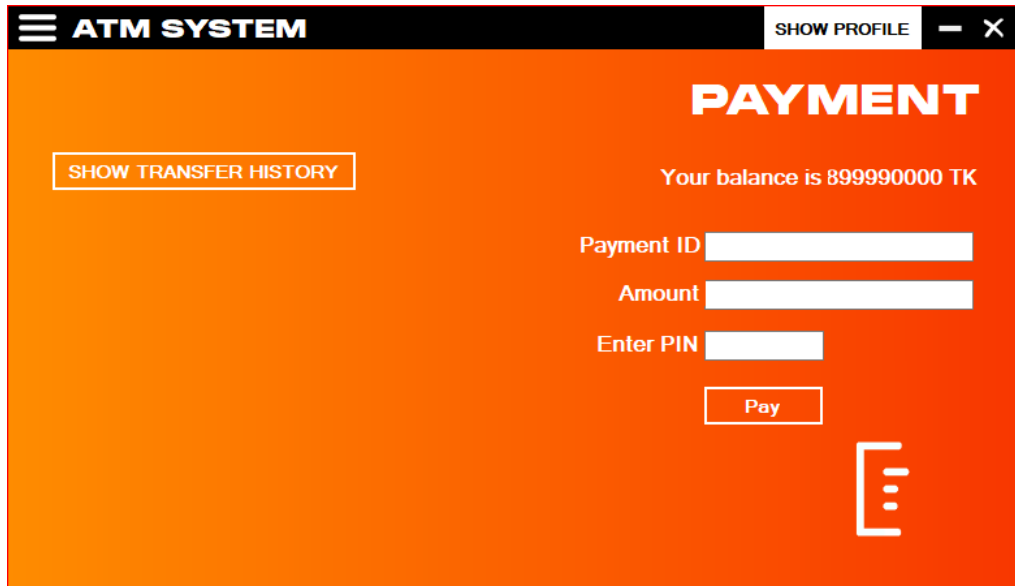
bill_id	amount	status

In the bottom right corner, there is an illustration of a smartphone being used to pay a bill at a payment terminal.

Figure: 10. Bill Pay

11. Payment

The user will pay any type of payment from here. Such as salary, University bills, shopping bills, current bills, restaurant bills, any ticket bills, etc.

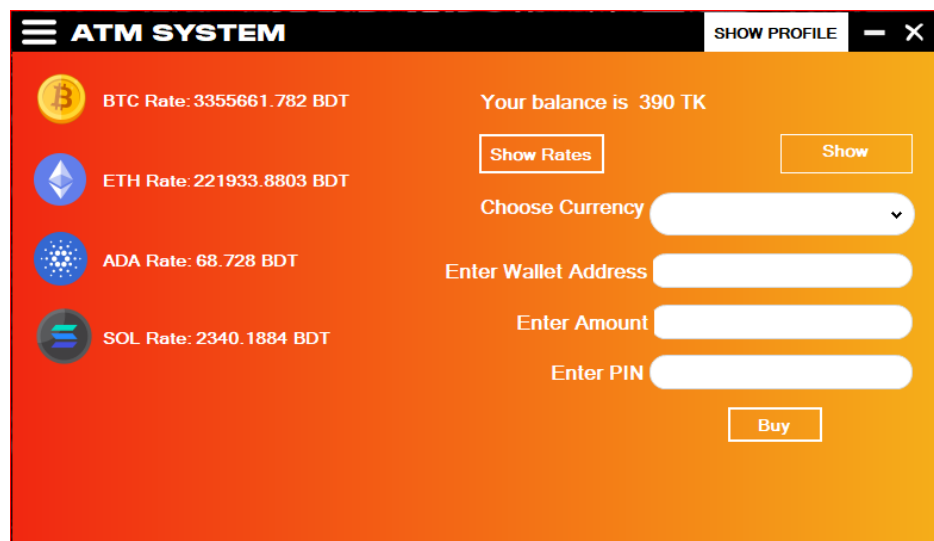


The screenshot shows the 'PAYMENT' interface of the 'ATM SYSTEM'. The header bar is black with a white hamburger menu icon, the text 'ATM SYSTEM', and a 'SHOW PROFILE' button with a minus and close icon. The main area has an orange-to-red gradient. On the left, there is a button labeled 'SHOW TRANSFER HISTORY'. On the right, the text 'Your balance is 899990000 TK' is displayed. Below this, there are three input fields: 'Payment ID', 'Amount', and 'Enter PIN'. A 'Pay' button is positioned below the PIN field. In the bottom right corner, there is a white icon of a document with a list of items.

Figure: 11. Payment

12. Cryptocurrency

The user could exchange cryptocurrency. The user will show the currency, transfer the currency and also buy and sell the currency from this software.

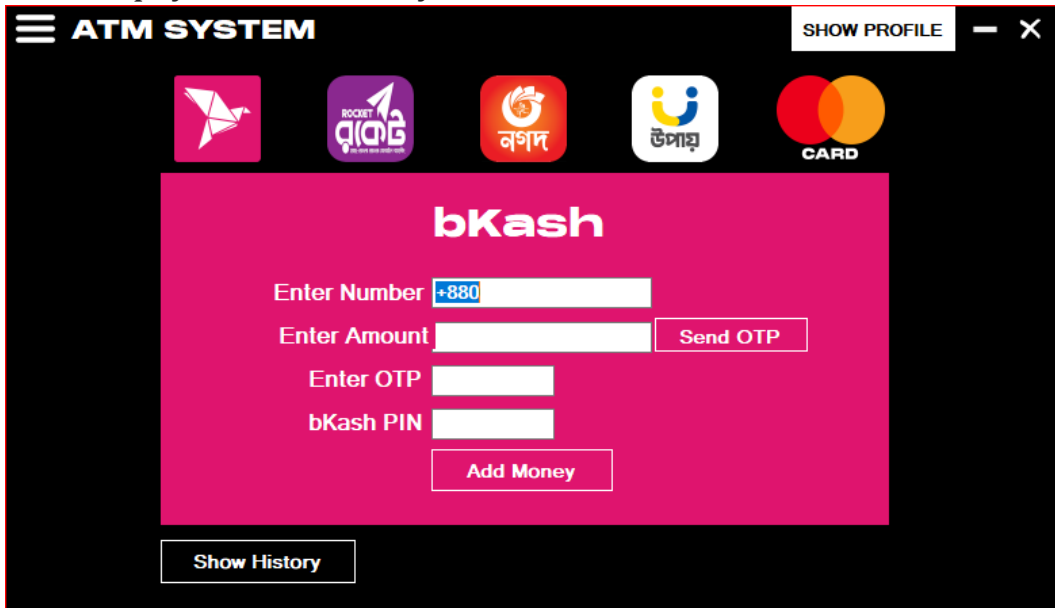


The screenshot shows the 'CRYPTOCURRENCY' interface of the 'ATM SYSTEM'. The header bar is black with a white hamburger menu icon, the text 'ATM SYSTEM', and a 'SHOW PROFILE' button with a minus and close icon. The main area has an orange-to-red gradient. On the left, there is a list of cryptocurrencies with their icons and rates: Bitcoin (BTC Rate: 3355661.782 BDT), Ethereum (ETH Rate: 221933.8803 BDT), Cardano (ADA Rate: 68.728 BDT), and Solana (SOL Rate: 2340.1884 BDT). On the right, the text 'Your balance is 390 TK' is displayed. Below this, there are two buttons: 'Show Rates' and 'Show'. Below these buttons, there are three input fields: 'Choose Currency' (with a dropdown arrow), 'Enter Wallet Address', and 'Enter Amount'. A 'Buy' button is positioned below the 'Enter Amount' field. At the bottom, there is an 'Enter PIN' field.

Figure: 12. Cryptocurrency

12. Add Money

The user could add money to his/her account from all types of accounts there are Bikash, Nogod, Rocket, Upay, Mastercard by this software.

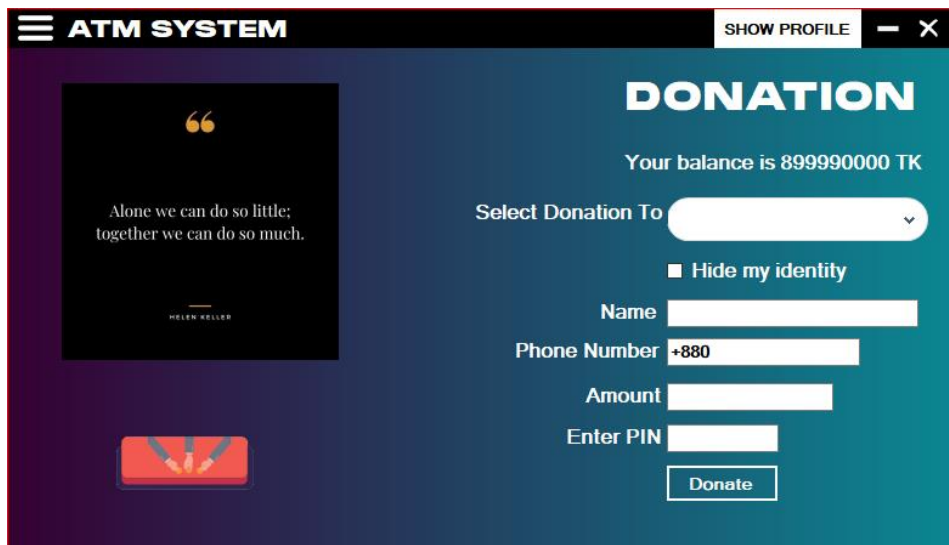


The screenshot shows the 'ATM SYSTEM' interface with a 'SHOW PROFILE' button in the top right. Below the header, there are five logos: a pink paper plane, a purple 'ROCKET' logo, an orange 'নগদ' (Nogod) logo, a blue 'উপায়' (Upay) logo, and a red and orange 'CARD' logo. The main content area is a pink box titled 'bKash'. It contains the following fields and buttons: 'Enter Number' with a dropdown set to '+880', 'Enter Amount' with a text input field, a 'Send OTP' button, 'Enter OTP' with a text input field, 'bKash PIN' with a text input field, and an 'Add Money' button. At the bottom left of the pink box is a 'Show History' button.

Figure: 12. Add Money

14. Donation

Making a donation through Charity ATM is quick and easy. Consumers have the option of donating to a number of charities at participating ATM locations.



The screenshot shows the 'ATM SYSTEM' interface with a 'SHOW PROFILE' button in the top right. The main content area has a dark blue background with a teal gradient on the right. On the left, there is a quote: 'Alone we can do so little; together we can do so much.' by HELEN KELLER, with a small illustration of hands holding a heart below it. On the right, the section is titled 'DONATION'. It displays 'Your balance is 899990000 TK'. Below this is a 'Select Donation To' dropdown menu. There is a checkbox labeled 'Hide my identity'. The form includes fields for 'Name', 'Phone Number' (with a dropdown set to '+880'), 'Amount', and 'Enter PIN'. A 'Donate' button is at the bottom right.

Figure: 14. Donation

15. Update Profile (Change Pin)

User can also update his/her profile. He can also change Pin and his user information.

Figure: 15. Update Profile (Change Pin)

15. Update Profile (Update Profile)

User can also update his/her profile. He can also change Pin and his user information.

Figure: 15. Update Profile (Change Pin)

6. Admin

1. Admin Captcha

When anyone register as admin, he/she will face this Captcha.



Figure: 1. Admin Captcha

2. Admin Login

After registration admin can login with appropriate Id and Pin and also go back if need.

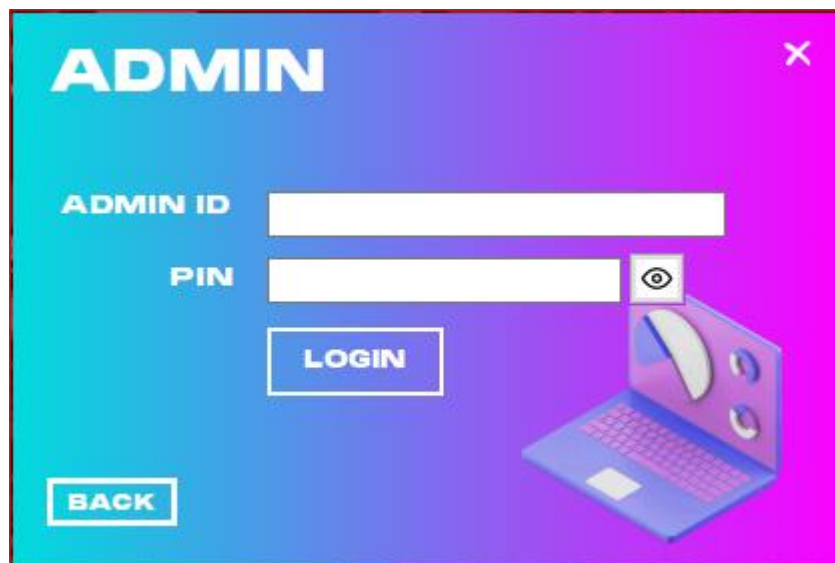


Figure: 2. Admin Login

3.Admin Unlocking Splash Screen

When admin give all data correctly then he will get this page and go to admin dashboard.

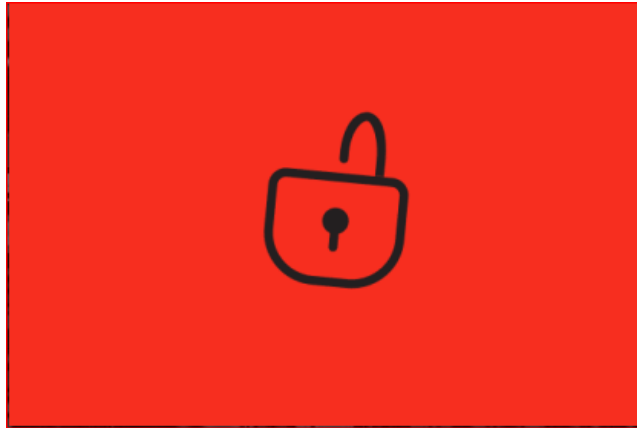


Figure: 3. Admin Unlocking Splash Screen

4.Admin Dashboard

Admin reach the admin dashboard he will get all options and saw a responsive user interface.

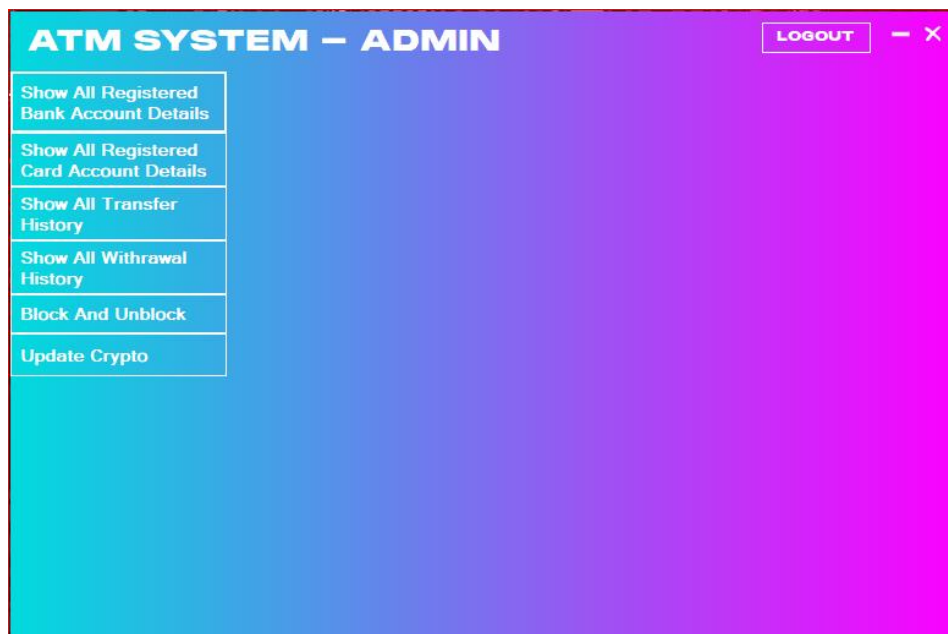


Figure: 4. Admin Dashboard

5. Admin Show Registration Bank Account

If admin want to see the details of all bank accounts he will see easily from this dashboard.

ATM SYSTEM – ADMIN					
<div> <div>LOGOUT</div> <div>–</div> <div>×</div> </div>					
Show All Registered Bank Account Details	transferer_account_type	username	ammount	transaction_id	tr
	Bank	Kabbo45	30	TRASFATM6378213140	7
Show All Registered Card Account Details	Bank	Kabbo45	10	TRASFATM6378217335	1
	Bank	Kabbo45	20	TRASFATM6378217498	1
Show All Transfer History	Bank	Kabbo45	10	TRASFATM6378220252	1
Show All Withdrawal History	Card	arnob007	250	TRASFATM6378235959	1
	Bank	Kabbo45	30	TRASFATM6378236359	1
Block And Unblock	Bank	Tomal	220	TRASFATM6378236479	3
Update Crypto	Bank	imran	50	TRASFATM6378236625	1
	Card	fahim00	175	TRASFATM6378236783	1
	Bank	nayem	100	TRASFATM6378263184	1

Figure: 7. Admin Show Transfer History

8. Admin Block and Unblocking

Admin can block any kind of bank and card account users and unblocking any account.

ATM SYSTEM – ADMIN					
<div> <div>LOGOUT</div> <div>–</div> <div>×</div> </div>					
Show All Registered Bank Account Details	transferer_account_type	username	ammount	transaction_id	tr
	Bank	Kabbo45	30	TRASFATM6378213140	7
Show All Registered Card Account Details	Bank	Kabbo45	10	TRASFATM6378217335	1
	Bank	Kabbo45	20	TRASFATM6378217498	1
Show All Transfer History	Bank	Kabbo45	10	TRASFATM6378220252	1
Show All Withdrawal History	Card	arnob007	250	TRASFATM6378235959	1
	Bank	Kabbo45	30	TRASFATM6378236359	1
Block And Unblock	Bank	Tomal	220	TRASFATM6378236479	3
Block Card	Bank	imran	50	TRASFATM6378236625	1
Unblock Card	Card	fahim00	175	TRASFATM6378236783	1
Block Bank AC	Bank	nayem	100	TRASFATM6378263184	1
Unblock Bank AC					
Update Crypto					

Figure: 8. Admin Block and Unblocking

9. Admin Block Card User:

Admin can block any kind of card account users and unblocking any account.

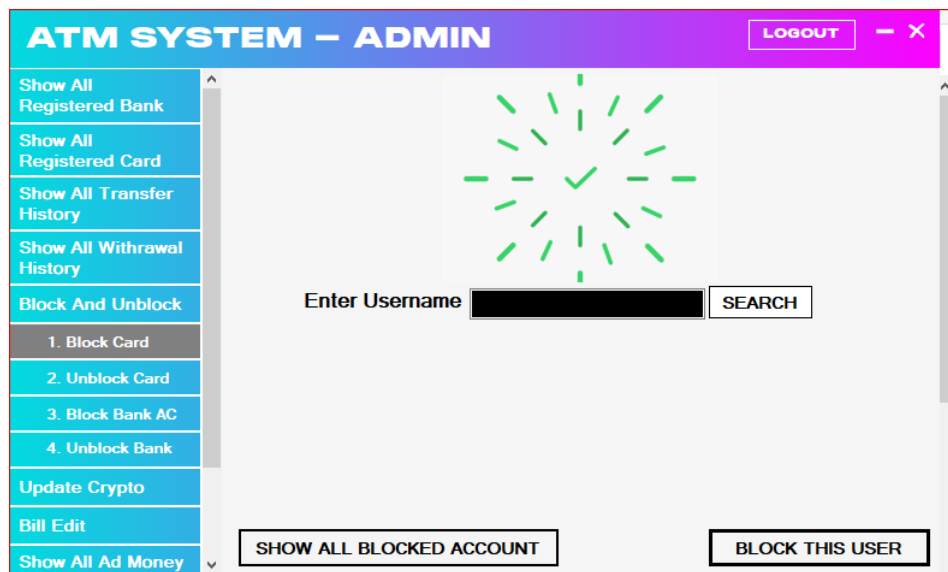


Figure:9. Block Card

10. Admin Un-block Card User:

Admin can unblock any kind of card account users and unblocking any account.

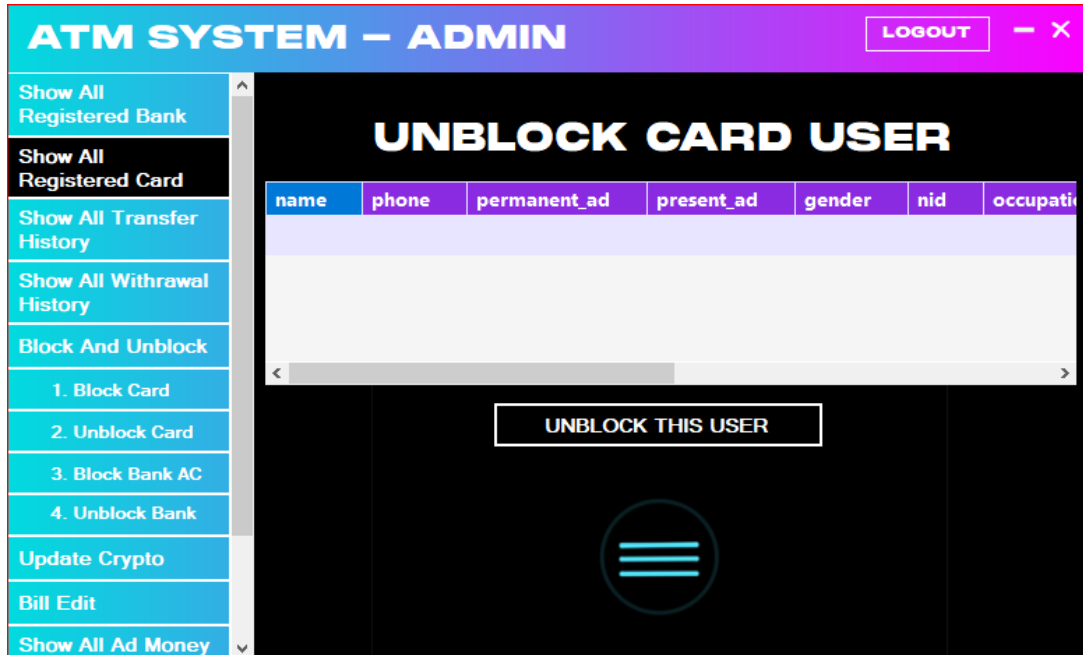


Figure: 10: Unblock Card

11. Admin Block Bank User:

Admin can block any kind of card account users and unblocking any account.

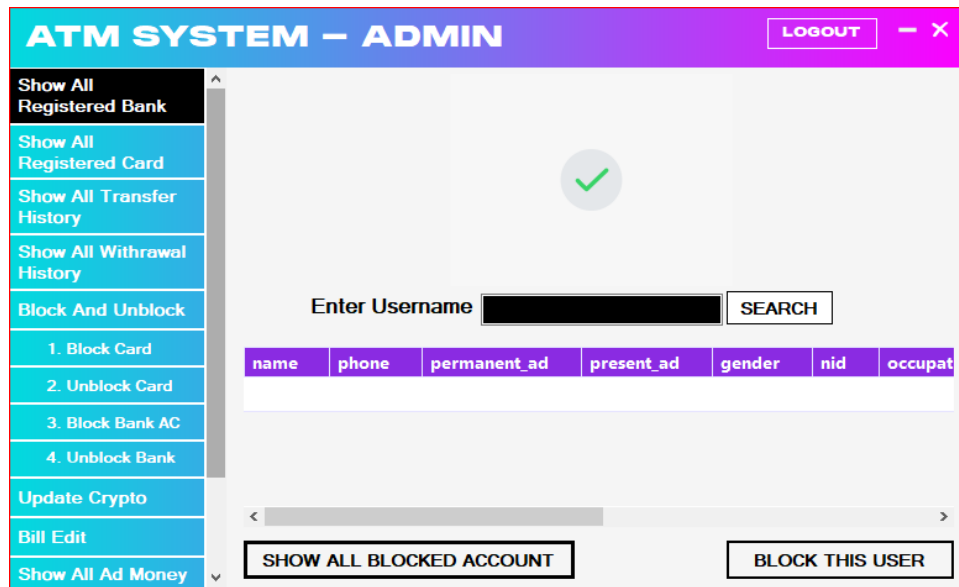


Figure: 11: Block Bank User

12. Admin Un-block Bank User:

Admin can unblock any kind of card account users and unblocking any account.

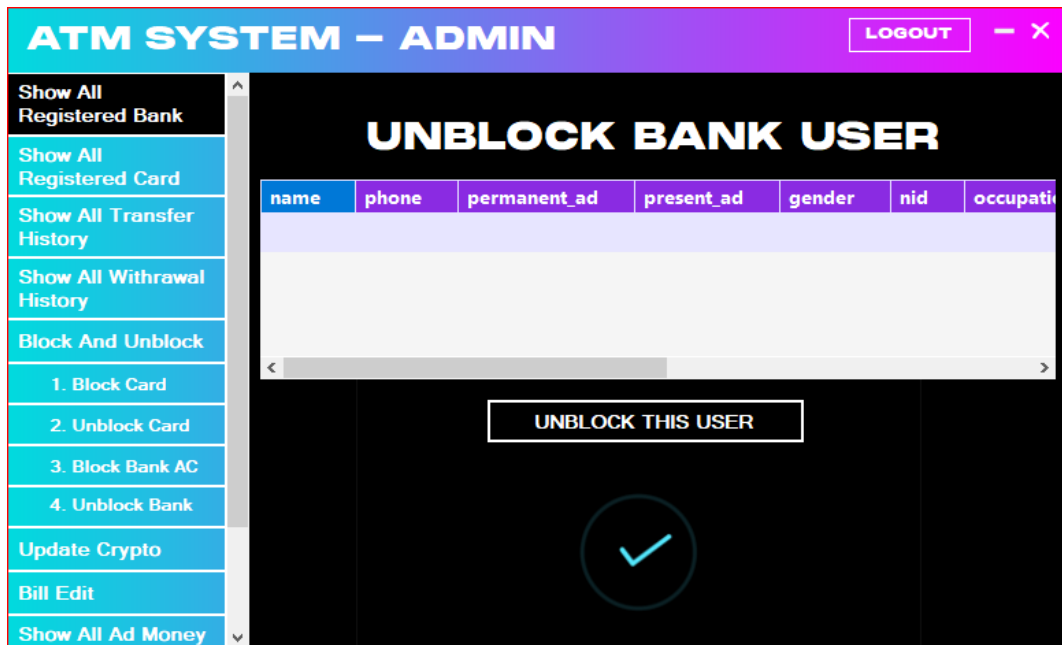


Figure: 12: Unblock Bank User

13. Admin Update Dollar Rate

Admin can update any currency rate as dollar.

The screenshot shows the 'ATM SYSTEM - ADMIN' interface. On the left is a sidebar menu with the following options: 'Show All Registered Bank Account Details', 'Show All Registered Card Account Details', 'Show All Transfer History', 'Show All Withdrawal History', 'Block And Unblock', 'Block Card', 'Unblock Card', 'Block Bank AC', 'Unblock Bank AC', and 'Update Crypto' (which is highlighted in black). The main content area has a yellow background. At the top right of this area is a 'LOGOUT' button. In the center, there is a form to update the dollar rate. It features two green dollar sign icons with eyes. Between them is the text '1 USD =' followed by a white input field, then 'BDT'. Below the input field is a yellow 'ENTER' button.

Figure: 13. Admin Update Dollar Rate

14. Admin Update Cryptocurrency Rate

Admin can update any Cryptocurrency rate as Bitcoin, ETH, ADA, SOL.

The screenshot shows the 'ATM SYSTEM - ADMIN' interface for updating cryptocurrency rates. The sidebar menu is identical to Figure 13, with 'Update Crypto' highlighted. The main content area has a yellow background. At the top right is a 'LOGOUT' button. On the left side of the main area is a Bitcoin icon. To its right are four input fields, each preceded by a label: 'Enter BTC Value', 'Enter ETH Value', 'Enter ADA Value', and 'Enter SOL Value'. Each input field is followed by the text 'USD'. Below these input fields is a yellow 'UPDATE' button. On the right side of the main area is a green dollar sign icon with eyes.

Figure: 14. Admin Update Cryptocurrency Rate

15. Admin Billing System:

Admin can create Billing for user.

ATM SYSTEM – ADMIN LOGOUT – ×

Show All Transfer History
 Show All Withdrawal History
 Block And Unblock
 1. Block Card
 2. Unblock Card
 3. Block Bank AC
 4. Unblock Bank
 Update Crypto
 Bill Edit
 Show All Ad Money History
 Show All Donation
 Show All Payment History

Enter Username
 Bill ID BILL6378329605
 Enter Amount
 Add Bill
 Show History

Figure:15. Admin Billing System

16. Admin Show all Donation History:

If admin want to see the details of all Donation History he will see easily from this dashboard

ATM SYSTEM – ADMIN LOGOUT – ×

Show All Transfer History
 Show All Withdrawal History
 Block And Unblock
 1. Block Card
 2. Unblock Card
 3. Block Bank AC
 4. Unblock Bank
 Update Crypto
 Bill Edit
 Show All Ad Money History
 Show All Donation
 Show All Payment History

username	donated_to	amount	name	ph
Kabbo45	SOS Children's Villages Bangladesh	10	Not interested	No
Kabbo45	As-sunnah Foundation	90	Not interested	No
test	As-sunnah Foundation	50000000	Not interested	No
test	Food For All - Khukumoni Foundation	450000000	Not interested	No

Figure:16. Admin Show all Donation System

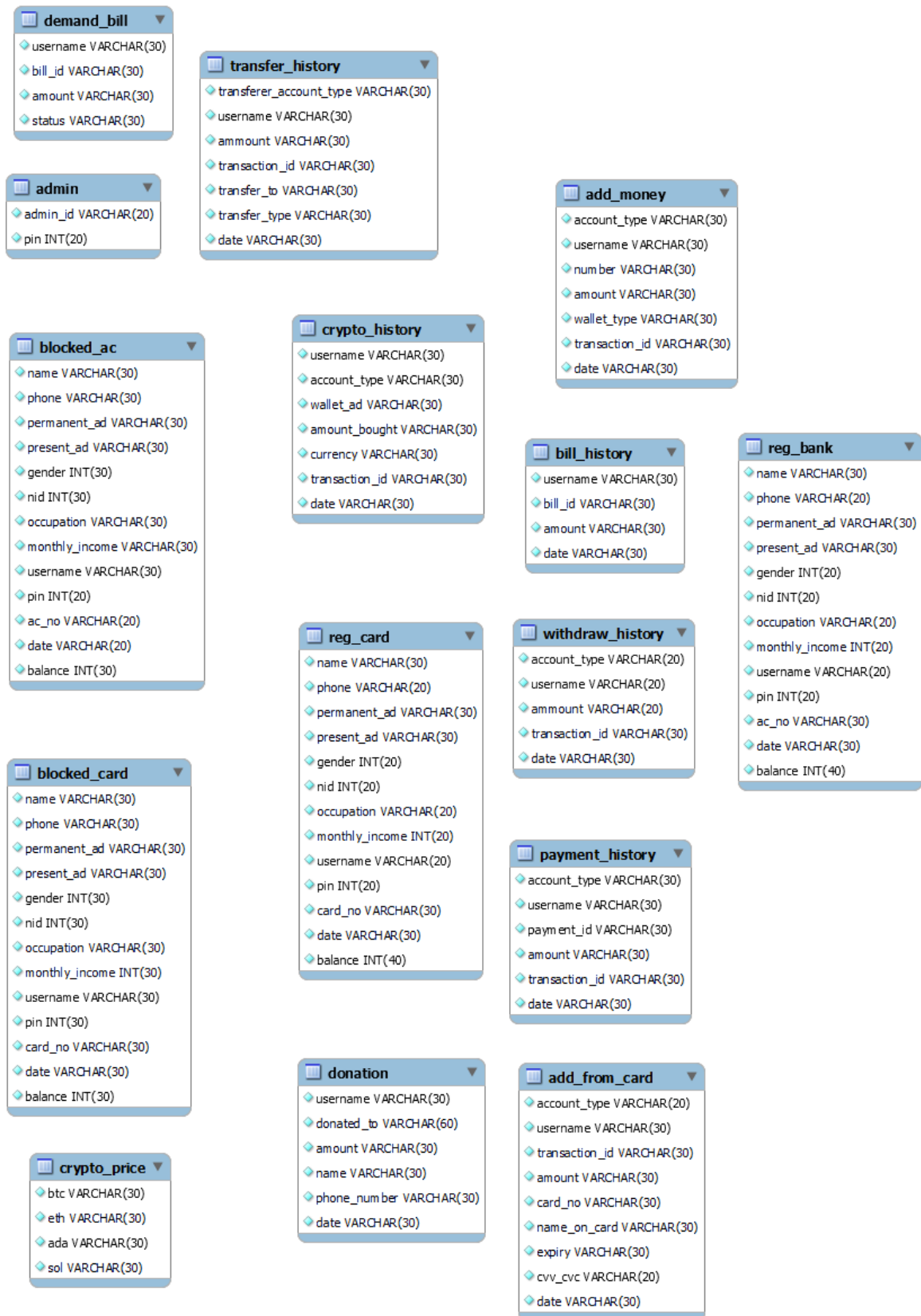
17. Admin Show Payment History:

If admin want to see the details of all Payments history he will see easily from this dashboard.

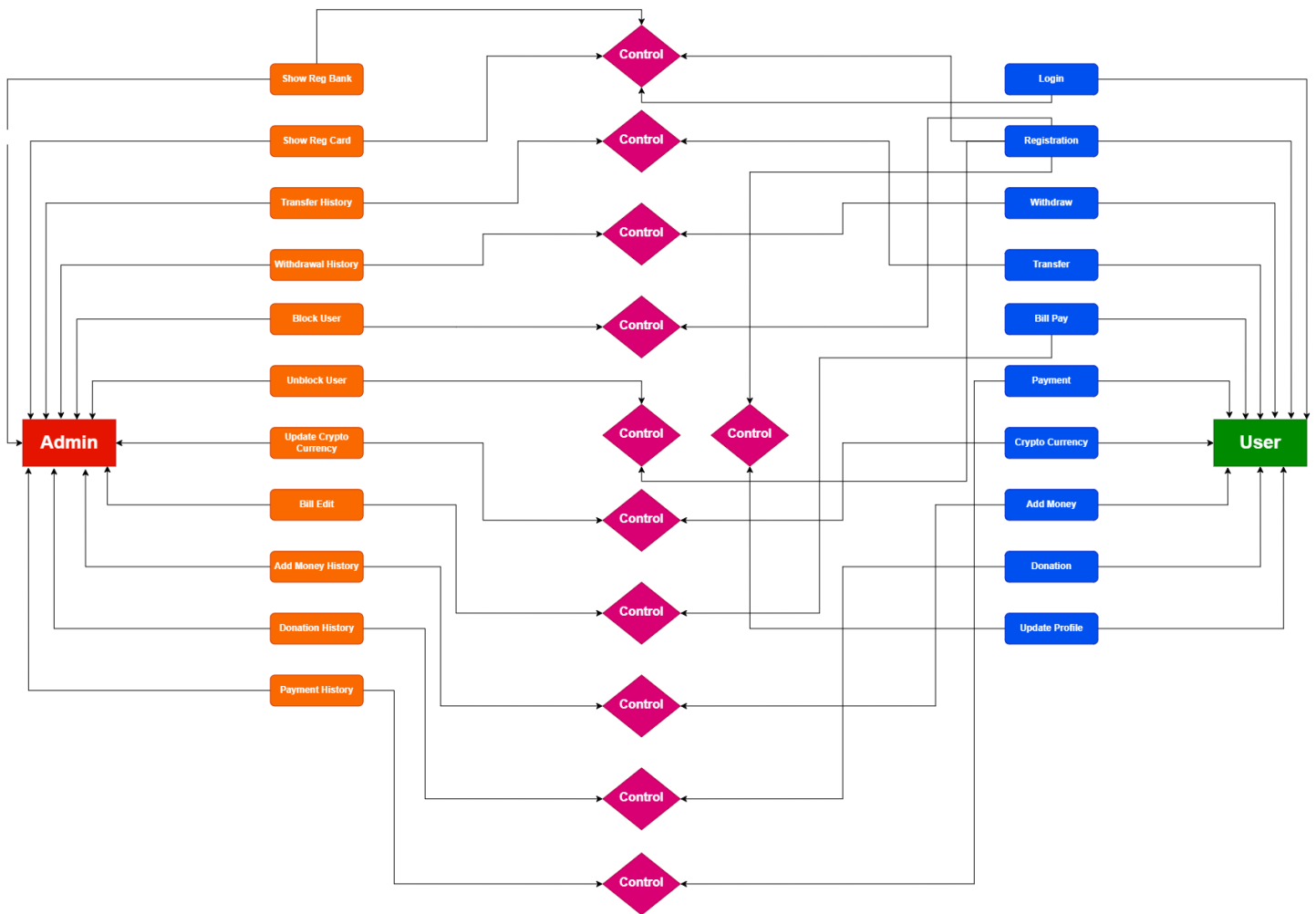
ATM SYSTEM – ADMIN						LOGOUT	–	×
Show All Transfer History	account_type	username	payment_id	amount	transaction_id			
Show All Withdrawal History	Bank	Kabbo45	12345678	10	PYMNTAT6378314523	0		
Block And Unblock	Bank	Nayem	12345678	10	PYMNTAT6378314892	0		
1. Block Card								
2. Unblock Card								
3. Block Bank AC								
4. Unblock Bank								
Update Crypto								
Bill Edit								
Show All Ad Money History								
Show All Donation								
Show All Payment History								

Figure:17. Admin Show all Donation System

SCHEMA DIAGRAM



ER DIAGRAM



7. Future Work

1. We want to make this software more user friendly.
2. We will an option for reporting bugs for fixing bugs (if any) or suggestions for better support.
3. We will add an option as “International Transfer System” for students if BUBT Authority allows us.

8. Conclusion

We started this project when we had very few concepts about the C# language and its different usage. During the project preparation we were introduced with the new concepts and new elements of C# language along with the progression of the course. We were able to apply all those theoretical C# concepts taught to us in our application to make it more and more functional. Over time, we've worked to make our project more compact and more user-friendly. During this period, we learned various C# programming concepts and now in position to design in the error free program successfully. Overall, the team feels that the project is pretty successful although we did face a few problems here and there but we came to know the various C# programming techniques. We learned to make the variables and constants either global or local. Then we also learned the practical way of implementing the structures in the program and access the members of structures, compare them, initialize them and so on. The implementation of techniques like string comparison, function calling, recursion, array storage, using file for storage, and calling by value or reference has broaden my knowledge regarding C# language.

9. Reference

- Stack Overflow
- GitHub
- W3School