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CARDLESS ATM THAT USES FINGERPRINT

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ABSTRACT:

In an ATM that is protected by fingerprints, users only need to rest their finger on the scanner's surface to prove who they are right away. In order to make it easier to get biological information from users, fingerprints can be checked against a database that is tied to a bank user's account. In order to use an ATM, a person must first register their fingerprint, enter their PIN, and then choose which bank they want to use. It will only come back with choices for different ATM features after the fingerprint is checked.People who are blind or have low vision will be able to use the ATM with the help of the IVR system and the braille keyboard.

Keywords— Security features include a capacitive scanner, a braille keyboard, an interactive voice response system, the ability to match fingerprints, Eclipse, and Visual Studio 2017 Community Edition.

INTRODUCTION:

Most of the time, people use an automated teller machine (ATM) to transfer or take cash, pay for things online, and so on.

Already in Place:

The person is only known by their PIN in the current ATM setup. The number of crimes that happen at ATMs is rising very quickly. It's possible to forget the PIN, and it's also possible for someone to hack it.

This means that the current method is not as safe as it should be. Additional new safety measures need to be put in place so that using ATMs is safer. Some things that can be done to make ATMs safer areFinger print recognition

- Iris recognition
- Retina recognition
- Face recognition
- Voice recognition ,etc

A) Proposed System

In our proposed system, we are improving the security by using the Fingerprint Recognition Technique in ATM that will help the user to access multiple bank accounts without the need of different cards.The IVR System and the Braille Keyboard will be a better guide for the motive of helping the visually challenged people acces the ATM.

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PROPOSED AND IMPLEMENTED SYSTEM ARCHITECTURE

Figure 1- External Components of the system

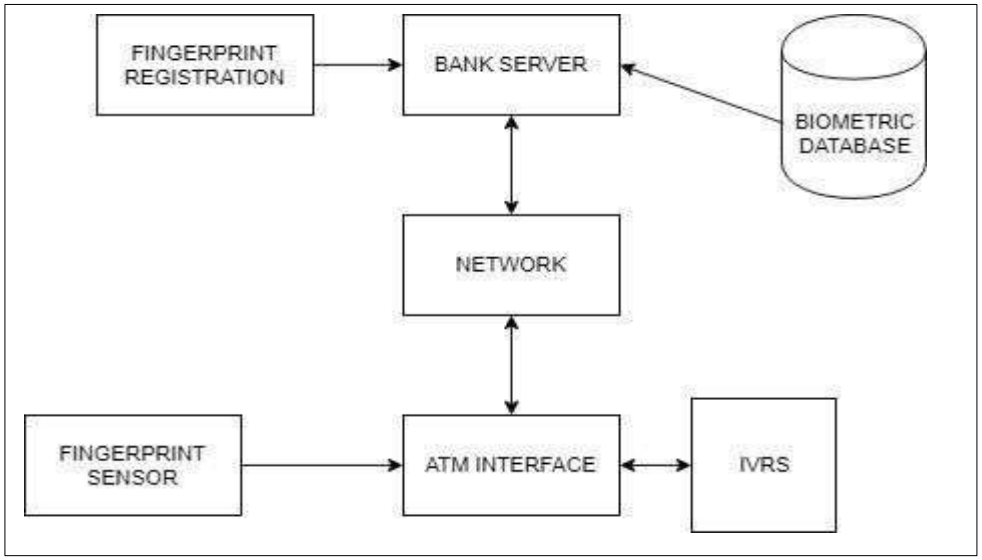

Figure 2- system architecture

Working of proposed system

Step 1: Select bank

Step 2: Enroll Fingerprint

Step 3: Select transaction method

Step 4:Select transaction type

Step 5: Enter amount if NO then go to Step 1

Step 6: Enter pin if no then goto Step 1.

Transaction Successful

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LITERATURE SURVEY:

SR.NO	TITLE	PUBLICATION DETAIL	ADVANTAGES	LIMITATIONS
1	One Touch Multi-banking Transaction ATM System using Biometric and GSM Authentication	IEEE (2017)	Card less Transactions.	If ATM card is lost or stolen, wait till a new ATM card is handed out to you. Mobile is always required.
2	MFCC and VQ Voice Recognition Based ATM Security.	IEEE (2017)	All the bank accounts are managed in a single finger touch thus no need to carry multiple cards and remember their passwords.	Cough, colds or overall health condition of the speaker may provide variations in speaker's voice quality.
3	A Self Banking Biometric Machine with Fake Detection Applied to Fingerprint and Iris along with GSM Technology for OTP	IEEE(2017)	Using the two most stable physiological biometrics as a means of identification of an individual has made the system more reliable.	Mobile is always required.

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WORKING:

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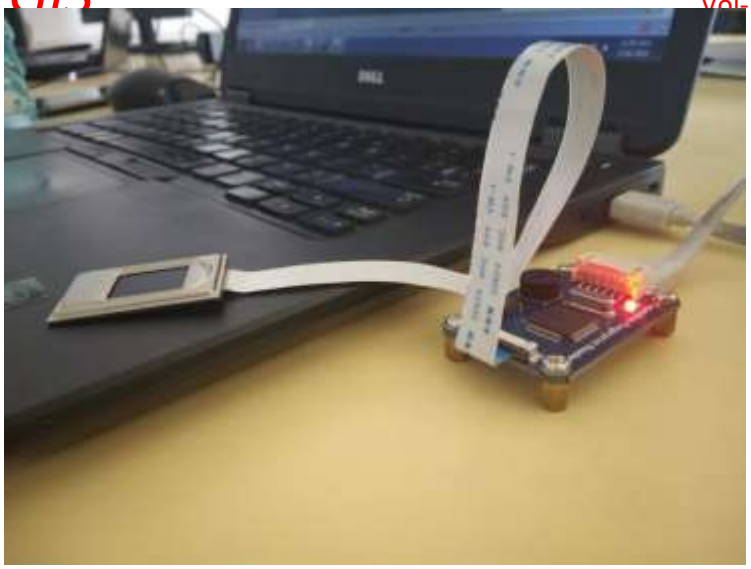

CONCLUSION:

The proposed card less ATM system has advantages such as saves manufacturing cost of cards and overcomes drawbacks of the traditional system like carrying multiple cards, losing of card, fraud calls related to ATM card, etc. and provides high security by using authentication like fingerprint therefore making it easy to use multiple bank account transaction in a single touch. This system provides an IVR system which guides the user to operate the system,also has a Braille keyboard helping the visually challenged people. Performance of system can be increased by increasing efficiency of fingerprint algorithm. Biometric authentication can be used for payments in merchant shops instead of traditional card swiping for payments

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