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**INTRODUCTION**

The main purpose of our system is to make online transaction more secure and user-friendly. Now days Biometric technology is increasing rapidly. Biometric is used for personal identification. Here we are using Fingerprint scanning biometric to provide access to ATM machine. Data of a fingerprint is stored in database using the enrollment process through the Bank. Bank provides authentication to the customer that can be accessed while performing transaction process. If fingerprint match is found in data base then transaction will take place. After verification if fingerprint does not match transaction will be cancelled. Using fingerprint based ATM system user can make secure transaction.

**OBJECTIVES**

To propose authentication and verification process on the existing ATM machine to make a successful and secure transaction.

The main objective of this project is to provide fingerprint as authorized identity and to design a more secure ATM system.

In this, ATM machine works as when the customer places finger on biometric scanner of ATM and if the finger match is found it will display the name of the customer on ATM machine. If Fingerprint match is not found, it does not allow any transaction.

The objective of this study is as follow:-

1. To add two authentication levels to the ATM systems.
2. Fingureprint
3. Pincode
4. If any one of them is missing than transaction will not take place.

**Features:**

* Login: - User will login to the system using his fingerprint.
* Add Pin Code: - User has to add pin code in order to do transactions.
* Withdrawal of cash: - User can withdraw cash by entering the amount he want to withdraw.
* View Balance: - User can view balance which is available in his respective account.

**Advantages:**

* Fingerprint based ATM System is more secure than ATM card.
* User can make transaction using his fingerprint anywhere and at anytime he need not have to carry ATM card.

**Disadvantages:**

* If the User finger pattern has some cut or got damaged the system might not recognize the user.

**Applications:**

The system can be used in various Banks