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A PROJECT REPORT
ON

"ATM SECURITY"

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CHAPTER 1

INTRODUCTION

1.1 Introduction to the Project

Automated Teller Machine is a mechanical device that has its roots embedded in the accounts and records of a banking institution [3]. Now-a-days, in the self-service banking system has got extensive popularization with the characteristic offering high-quality 24 hours service for customer. Using the ATM (Automatic Teller Machine) which provides customers with the convenient banknote trading is very common. However, the financial crime case rises repeatedly in recent years; a lot of criminals tamper with the ATM terminal and steal user's credit card and password by illegal means.

Crime at ATM‟s has become a nationwide issue that faces not only customers, but also bank operators [4].Once user's bank card is lost and the password is stolen, the criminal will draw all cash in the shortest time, which will bring enormous financial losses to customer. How to carry on the valid identity to the customer becomes the focus in current financial circle. Traditional ATM systems authenticate generally by using the credit card and the password, the method has some defects. Using credit card and password cannot verify the client's identity exactly. In recent years, the algorithm that the fingerprint recognition continuously updated and sending the four digit code by the controller which has offered new verification means for us, combined with the biometric identification technology verify the clients' identity better and achieve the purpose that use of ATM machines improves the safety effectively.

The purpose of this study is to develop an ATM system which is based on fingerprint verification operation that ensures greater securityand increased customer's confidence in the banking sectorthis method will provide an accurate and reliable user authentication.

The scope of this project is to enhance the security of the existing ATM (Automated Teller Machine) system by integrating the fingerprint of the user into the bank's database as to further authenticate it. By facilitating capturing and comparing fingerprint additionally to provide OTP is implemented. This is achieved by modelling and building an ATM system which has a fingerprint scanner.

Fingerprint authentication is the most popular method among biometric authentication, fingerprint based identification is one of the most mature and proven technique [1]. A finger prints are the most important part of human finger. It is experimented