

FINGERPRINT BASED AUTOMATIC
TELLER MACHINE

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SUPERVISOR'S DECLARATION

I hereby declare that I have checked this thesis and in my opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Science (Software Engineering).

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STUDENT'S DECLARATION

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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ABSTRAK

Kemajuan dalam perdagangan elektronik telah mencapai semangat yang lebih jelas untuk mengejutkan dan membuktikan bukti dan bukti yang jelas pelanggan. Kod akses untuk struktur, rekod bank dan sistem PC setiap kali dan sekali lagi menggunakan individu mengiktiraf nombor pengesahan (PIN) untuk pengesahan yang tidak dapat dikesan dan disahkan dalam status. Strategi khusus untuk pengesahan yang mudah dilihat dalam perspektif tanggungjawab untuk kad atau data tertentu seperti nombor dana pelaburan yang diinstitusikan atau gores misteri tidak semua bersama-sama kuat. Plot kelulusan biometrik setem yang luar biasa untuk mesin mesin juruwang automatik (ATM) yang dicadangkan di dalam kertas ini. Dalam susunan ini, strategi biometrik digabungkan dengan ATM untuk pengesahan tunggal untuk meningkatkan tahap keselamatan

ABSTRACT

The advancement in electronic trades has achieved a more unmistakable enthusiasm for snappy and correct customer conspicuous evidence and affirmation. Access codes for structures, banks records and PC systems every now and again use individual recognizing confirmation numbers (PIN's) for unmistakable verification and confided in status. Customary strategy for conspicuous verification in perspective of responsibility for cards or particular data like an institutionalized investment funds number or a mystery scratch are not all together strong. An embedded exceptional stamp biometric approval plot for Automatic teller machine (ATM) keeping cash systems is proposed in this paper. In this arrangement, a biometric strategy is entwined with the ATM for singular confirmation to enhance the security level

TABLE OF CONTENT

DECLARATION	
TITLE PAGE	
ACKNOWLEDGEMENTS	ii
ABSTRAK	iii
ABSTRACT	iv
TABLE OF CONTENT	v
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF ABBREVIATIONS	x
CHAPTER 1 INTRODUCTION	1
1.1 Introduction	1
1.2 Problem Statement	2
1.3 Aim &Objective	3
1.4 Scope	3
1.5 Thesis Organization	3
CHAPTER 2 LITERATURE REVIEW	4
2.1 Fingerprint Technology	4
2.2 Existing Systems	5
2.2.1 Automatic Teller Machine Using Card	5
2.2.2 Cardless Withdrawal	7
2.2.3 Talking Atm	9

2.3	Comparison between existing system	11
2.4	Proposed Technique	12
2.5	Conclusion	12
CHAPTER 3 METHODOLOGY		13
3.1	Introduction	13
3.2	Methodology	13
3.2.1	Waterfall Model	13
3.2.2	Waterfall Model Stages	14
3.2.3	Advantages of Using Waterfall approach:	15
3.2.4	Factor choosing waterfall modal	15
3.2.5	Context Diagram	15
3.2.6	System Function	16
3.2.7	General Architecture	17
3.3	Package Module	17
3.3.1	Transaction	17
3.3.2	Authentication(Bank to ATM)	17
3.3.3	Approval(ATM to user)	18
3.4	Hardware and Software	18
3.5	Gantt Chart	18
CHAPTER 4 RESULTS AND DISCUSSION		19
4.1	Introduction	19
4.2	Fingerprinting Technology	19
4.2.1	Fingerprint based Automated Teller Machine	20
CHAPTER 5 CONCLUSION		29

5.1	Introduction	29
5.2	Conclusion	29
5.3	RESEARCH CONSTRAINT	30
5.4	FUTURE WORKS	30
	REFERENCES	31
	APPENDIX A SAMPLE APPENDIX 1	33
	APPENDIX B SAMPLE APPENDIX 2	Error! Bookmark not defined.

LIST OF TABLES

Table 1	Exitisng Table	5
Table 2	Comparison Between Existing System	11

LIST OF FIGURES

Figure 1	ATM Machine using card	6
Figure 2	Cashless Withdrawal	8
Figure 3	cashless transcation	9
Figure 4	Talking ATM	10

LIST OF ABBREVIATIONS

ATM Automatic Teller Machine

CHAPTER 1

INTRODUCTION

1.1 Introduction

Biometrics is a movement that makes your data to an awe-inspiring degree secure (Jain, Ross, & Prabhakar, 2004). Biometric information can be used to greatly observe people by using their uncommon remarkable stamp, go up against, talk, iris, penmanship, or hand geometry et cetera. Using biometric identifiers offers two or three positive conditions over standard and current procedures. Tokens, for instance, appealing stripe cards, smart cards and password, can be stolen, lost, copied, or left behind; passwords can be shared, disregarded, hacked or by chance observed by a third individual. There are two key cutoff focuses offered by a biometric structure. One procedure is recognizable proof and the other is confirmation. In this paper. In this paper, we are concentrating on perceiving and affirming a customer by one of a kind unique mark acknowledgment.

A pushed ATM is customarily contained the gadgets like CPU to control the UI and devices related to trade, Magnetic or Chip card are utilized to perceive the client, PIN Pad, Secure crypto-processor generally inside an ensured cover, Display to be utilized by the client for playing out the exchange, Function scratch gets,. Unique mark recognition advancement improvement is the most widely perceived and least complex to send and for a more hoisted measure of security promptly accessible. Beginning late, with the assistance of computation, the amazing stamp request industriously supported, which has offered new check gathers for us. Biometric seeing certification movement demand the

clients' character better(Jain, Ross, & Pankanti, 2006) and moreover handle ATM deception with biometric (Mohammed, 2011).

In a unique mark secured ATM, clients just need to lay their finger on scanner surface to checked in a split second. There is no compelling reason to enter PIN while attempting to shroud the keypad. Fraudsters can take or duplicate PINs, however they can't do likewise with fingerprints. Parodying fingerprints is a genuinely complex process, which isn't generally a 100% achievement. Live finger has numerous optical, electrical, and mechanical properties that can't be introduced by a phony copy or a farce. With the innovative headway, analysts are working diligently to address current insufficiencies of biometric frameworks and resistance against parody assaults is their best need. With unique mark biometrics, clients feel more secured as their natural attributes turn into their personality and not an ownership (like ATM card) or information (PIN).Fingerprint confirmation will make upgrade the ATM security system.(Leyden, 2016)

1.2 Problem Statement

The Issue is Security because bank account password can be hack by shoulder surfing, ATM Pin number cracking (Mannan & Van Oorschot, 2008) and card skimming method then it will cause criminal attract all money within most brief time and bring big chaos to victim. Not only that, traditional ATM system accept only on the pin code security system, that lead to the other person rather than owner can access the account very easily and withdraw money without owner's permission. Must remember password and carry cards all the time to access current ATM system if customer accidently lost card at any emergency situation it will bring problem to customer(Gorman, 2003)

1.3 Aim &Objective

AIM: Implement fingerprint authentication in ATM system to user access into bank account

- To study and analysis the existing ATM systems security features.
- To design and develop a Biometric security feature through fingerprint authentication for Automatic Teller System.
- To validate and verify the implementation of biometric security features in the Automatic Teller System.

1.4 Scope

- This system will be designed as prototype based fingerprint authentication for Automatic Teller Machine.
- This software offers benefits such view balance and withdrawal money
- This system develop using VB.NET and URU4500 Digital Persona Biometric reader operate as read user fingerprint.

1.5 Thesis Organization

This chapter will explain about the Introduction, problem statement ,Aim, Objective and scope of project.

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