FINAL YEAR PROJECT REPORT

BIOMETRIC ELECTRONIC VOTING SYSTEM FOR UNIVERSITY ELECTIONS

In fulfillment of the requirement
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ABSTRACT

Over the years, various Biometric Voting System were proposed to exploit the utility of finger-print patterns for user authentication. However, there are problems associated with these finger-print pattern authentication systems such as: scars on fingers. This research was undertaken to develop methods to mitigate rigging attack. Two authentication methods using: (i) optical scan voting systems allow a computer to count a voter's mark on a ballot; and (ii) DRE voting machines which collect and tabulate votes in a single machine, were proposed. The first and second proposed methods were incorporated into the proposed (AFI) automated fingerprint identification, voter registration system. To improve the efficiency of voting system, reduce rate of rigging, collection of votes secure and reliable. In many proposals, the security of data, privacy of the voters and the accuracy of the vote are also main aspects that have to be taken into consideration while building secure Finger-print electronic voting system. In this project the authenticating voters and polling data security aspects for finger-print electronic voting system is covered. It ensures that vote casting cannot be altered by unauthorized person.Voter identification is required during two phases of the electoral process: first for voter registration in order to establish the right to vote and afterwards, at voting time, to allow a citizen to exercise their right to vote by verifying if the person satisfies all the requirements needed to vote (authentication).

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TABLE OF CONTENTS

DECLERATION		**II**
APPROVAL FOR SUBMISSION		**III**
ACKNOWLEDGEMENTS		**VI**
ABSTRACT		**VII**
TABLE OF CONTENTS		**VIII**
LIST OF FIGURES		**X**

CHAPTER

1	**INTRODUCTION**		**1**
	1.1	Background	2
	1.2	Problem Statements	19
	1.3	Aims and Objectives	20
	1.4	Scope of Project	21
2	**LITERATURE REVIEW**		**22**
	2.1	Introduction	22
	2.2	Electronic voting	22
	2.3	Caltech/MIT voting technology project	22
	2.4	NSF Internet voting report	23
3	**DESIGN AND METHODOLOGY**		**27**

	3.1	Minutiae Algorithm	27
	3.2	Ransac Algorithm	36
	3.3	Water Fall Model	50
	3.4	The Simulation Model	54
	3.3	The Symphony Model	56
4	**IMPLMENTATION**		**58**
	4.1	Description	58
	4.2	Source Code	58
5	**RESULTS AND DISCUSSIONS**		**73**
	5.1	Black box Testing	73
	5.2	Testing Based on Requirement	80
	5.3	Use Cases	81
	5.3	Black and White Testing	83
6	**CONCLUSION AND RECOMMENDATIONS**		**102**
	6.1	Introduction	102
	6.2	Evaluation of a Project	102
	6.3	Project Management Issues	103
REFERENCES			**104**