DEVELOPING STUDENT ATTENDANCE SYSTEM USING FINGERPRINT VERIFICATION

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ABSTRACT

Commitment of every student to their studies has been priority to the faculty and university itself. Therefore the attendances for each class that the students took are deeply monitored. Each student required to acknowledge his or her attendance by signing distinct signature mark on a sheet of paper. This method proof its ineffectiveness since it can be fraud and this will affect their academic result.

This paper purpose a much more effective system, a method of gathering student attendances by using biometric identification system. It is fast, reliable and more secured. Fingerprint is used as means of verification. It is scan and match using Griaule GrFinger Desktop Identity software along with the attendance system written in Visual Basic 6. The database is managed using Microsoft Access.

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CHAPTER 1

INTRODUCTION

1.1   Research Background

Since the day Institute Technology MARA received and changed its status as one of the universities in Malaysia in 29 June 1999, many new rules and regulations has been implemented. These rules are required as it set the quality of the graduates that would be produce. One of these rules involved the student attendance in class. The rule stated that the student attendance should not be lower than 70% of the total class attendances. Then it is change to 80% attendances several years later. If the students did not meet this requirement, the University has the right to stop the student from taking the final exam paper.

In the Faculty of Electrical Engineering, the student's attendances are gathered through a sheet of paper which is called *"Senarai Kedatangan"* then the student write a signature. The signature is most important mark since it verified the student attendance. The format for this paper is given by Academic Affair Department or HEA.

1.2   Problem Statement

The existing method of gathering attendance is not reliable because signature fraud has been detected where students sign the attendance on behalf of their friend who did not attend the class.