DEVELOPMENT OF STUDENT MONITORING DEVICE USING FINGERPRINT SCANNING

A Project Design
Presented to the Faculty of the
College of Communication and Information Technology
Ramon Magsaysay Technological University
Main Campus, Iba, Zambales

In Partial Fulfillment
of the Requirement for the Degree
Bachelor of Science in Computer Engineering

by
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Approval Sheet

Republic of the Philippines
RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY
College of Communication and Information Technology
Iba, Zambales

The study here to attached entitled

DEVELOPMENT OF STUDENT MONITORING DEVICE USING FINGERPRINT SCANNING

has been prepared and submitted by **Karl Louie D. Aragon, Kristine Dianne M. Dolojan, and Ronnel E. Dugay,** who are hereby recommended for oral examination.

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ABSTRACT

The main objective of the project is to design a Fingerprint Based Student Monitoring System and come up with a design that can offer a Student Entry System.

The proponents sought answers to the following questions.

1. What is the level of effectively of the system in students monitoring?
2. What is the level of efficiency of the system in handling multiple registered users who will access the system?
3. What is the level of efficiency of the system in storing and retrieving data of individual users of the system?

The significant findings in the study are as follows:

The system is effective. Fingerprint scanner accepts the fingerprint of the students that are registered in the device. Non registered students are not accepted. Only the registered students have the ability to time in and time out on the device.

1. In terms of system efficiency, it is very efficient .The proponents test the system by choosing twenty (20) students of Ramon Magsaysay Technological University under the College of Communication and Information Technology. Nineteen (19) of the students register to the system, students serves as the user 1 to user 19. One of the students is a non-user. User 1 to user 19 access the system and all of the users from 1 to 19 are

found. Non-user student access the system and the system displays user not found.

2. The level of efficiency of the system in storing data of individual users of the system is efficient. Fingerprint based student monitoring system has a flash drive that serves as an external memory. Student's user number, Time in, time out and date of fingerprint scanning of the students will be save on the external memory of the device.

From the findings mentioned, the following conclusions on the study arrived at:

1. The system is effective in terms of level of effectively in students monitoring. The time in and time out of the students will be monitored on the device because it has an external memory that saves students time in, time out, date and students user number.
2. The system is efficient in handling multiple registered users that will access the system. Non registered users are not accepted.
3. Flash Drive stores data of individual users of the system. The flash drive is the external memory of the device. It stores student's user number, time in, time out and date of fingerprint scanning.

The researchers recommend the following recommendations based on the findings and conclusions.

1. If possible, utilizing other biometrics in order to achieve the problem regarding of dirt's and wounds on the fingerprint of the students.

2. If possible, improving the capacity of memory in order to save more files. More memory capacity means more data files.

3. If possible, develop more security programs that will prompt for password and sub-password for additional security features. We all know that there is no perfect security features but preventing it is important.

4. If possible, modification of the miniature of the project is recommended. Make it smaller to install it easier and better.

5. If possible, implement it not only in university but also in other government department.