

ABSTRACT

The information and communication technology has been develop so fast that it affects every aspect of human life. One of them is the application of technology and information science, because technology has also been widely used in all aspects of human life such as in the fields of medicine, communication, military, transportation and others. From these various fields, the application of technology in the field of education is still very limited, one of the applications is the process of taking attendance or attendance of students / students in schools which until now is still done manually by the teachers.

With these problems, we need a device that can facilitate the process of taking attendance. Biometric Fingerprint Attendance and Web Monitoring Sytem is a device that uses a fingerprint method to recognize someone based on physical characteristics, by using a fingerprint sensor to record a person's fingerprints and will store that data in the storage / memory sensor to later be reconciled with the data contained in the web monitoring system database in accordance with each user's data that has been entered on the system.

This system can read fingerprints with an accuracy level of 90.15% and a speed response sensor that is 2-3 (seconds), and the average value of errors obtained is 10.3%. At the time of fingerprint enrollment, each student can register more than one finger. If something goes wrong with the injured finger, you can use another finger. This system can also decide students every day in accordance with the time and day determined by the school.

Keywords: Biometrics, Fingerprint, Microcontroller.