

Classroom Monitoring System

1.0

Introduction of the project

This project aims to develop a safe and secure monitoring system for the classroom environment. If a student attempts to leave or sneak out during the class, the system will be able to detect it and can record and verify in the classroom.

1.2. Invitation:

The proposal of the project has been prepared and is being submitted in response to our respective course Microprocessor and Interfacing Laboratory.

2.0

Purpose of project:

The main objective of this document is to develop a safe and secure monitoring system for the classroom environment.

2.1

Scope of Project:

1. To develop a safe and secure monitoring system for the classroom environment.
2. To provide a user friendly environment where user can be serviced better.

2.2.

Features:

- Smart class room monitoring
- A safe and secure monitoring system
- class administrator containing RFID reader monitoring the classroom
- will count of how many students enter and leave.

3.

Conclusion:

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In this days, a smart monitoring system is necessary . For this project we built a system using RFID sensor. RFID tag, another for the class administrator containing RFID reader monitoring the classroom. RFID reader captures the entering and leaving of a student in classroom and will keep count of how many students enter and leave. The count is shown on a LCD display on the administrative device. The attendance of students are captured using RFID tags. A student holds his ID card containing the RFID tag in front of the RFID reader, it reads the data and verifies it with the data stored in the microcontroller. If the data matches, then it displays a message on the LCD. If there is a mismatch, a message is displayed and it will buzz off the buzzer. The history of each day is saved in an internal database maintained by EEPROM. If a student attempts to leave or sneak out during the class, the RFID module will be able to detect it. RFID reader can record and verify the RFID tags in the classroom.