

Student Monitoring System

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Abstract: *The Student Monitoring System Using IoT is a real-time tracking solution designed to efficiently monitor student attendance and movement within a campus using RFID technology. The system consists of two hardware devices—an RFID Reader and RFID Tags—and a mobile-based Admin Application. The RFID Reader (H/w Device 1) is placed at the college gate, where it scans student RFID tags upon entry and exit, recording their in-time and out-time. The RFID Tags (H/w Device 2) carry student-specific information such as branch, name, and roll number. This data is automatically captured and sent to the Admin Application. The Admin Application allows authorized users to log in and access real-time reports, displaying the number of students entering the campus. Administrators can also filter and sort student data by branch, name, and roll number, providing an organized view of attendance records. The system improves attendance tracking, enhances security, and simplifies student management for college administrators.*

Keywords: RFID Technology, Real-Time Tracking, Attendance Monitoring, Campus Security, Admin Application, Student Management