

ABSTRACT

The Raspberry Pi-based Smart Attendance System with GSM is a new-age solution for effective attendance tracking without the need for RFID features. The system runs on a pre-scheduled basis, whereby users mark their attendance through a simple interface like a Pi Camera attached to the Raspberry Pi.

If a student doesn't enter the class within the provided time frame, the system will automatically send an alert through GSM to notify the person or guardians of their absence. The system also produces extensive attendance reports showing absentees, late comers, and general attendance status that are provided to the management to analyze and make decisions.

Designed to be scalable and customizable, this system is ideal for schools, offices, or factories, providing an effective and affordable means of monitoring attendance while providing timely communication and accountability. By emphasizing simplicity and automation, this solution avoids manual errors and provides seamless attendance management.