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IoT based Student Attendance Management System using RFID and Face Recognition

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Abstract: *Attendance is for keeping records of number of students present in schools, colleges or in any organization. It is very important constituent in maintaining discipline among students in acollege and imparting quality education in schools, colleges. Complexity of this process increases even more with increase innumber of students. Biometric student attendance system increases the efficiency of the process of taking student attendance.Automatic wireless identification has been facilitated by IoT technology using electronic passive and active tags with suitable readers. In this paper the concept of a simple and portable approach of IoT is applied to student attendance that records the attendance using RFID and Face Recognition. This system aims to automate the awkward process of manually taking and storing student attendance records. It will increase the reliability of attendance records by preventing proxy attendance. As per the requirement by the teacher, the securely stored attendance records can be reliably retrieved. This concept is capable of eliminating time consumption during manual collection of attendance and an opportunity for the educational administrators to capture face-to-face classroom data for allocation of proper attendance scores and for further managerial decisions.*

Keywords: Biometric, RFID, Face Recognition, IoT, Attendance

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