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Portable Biometric Attendance System using Raspberry Pi

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Abstract: *In the entire world, every educational organization is concerned about the attendance of individuals because this harms their overallperformance. In the conventional method attendance of students is taken by calling out the names of students orsigning on paper which is extremely time overwhelming. To eliminate this problem one of the solutions is a biometric-based attendance system that would be able to automatically capture the students' attendance by recognizing their fingerprints. Fingerprint recognition is regarded as one of the most reliable, accurate, and efficient biometric identification systems. The module enrolls the student's fingerprints. Enrolling is a one-time process. The fingerprints are stored in the fingerprint. At the same time, it is updated in a database. When the users log into the database, the data is sent through Wi-Fi to the server. The server maintains the records of the students. If the student's attendance goes below a certain percentage, an SMS will be sent to their registered mobile number. In many real-time applications, biometric authentication is used.*

Keywords: Biometric Attendance System.

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