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(57) Abstract :

ABSTRACT IOT based smart classroom attendance system in E-learning application The Internet of Things (IoT) is rapidly expanding the possibilities of advanced communication to new devices and applications, and this has led to the emergence of smart classroom attendance systems based on IoT technology. This paper examines an IoT based smart classroom attendance system that can be used in an e-learning application. The system can be used to accurately and securely record attendance, as well as track changes in student participation, provide automated attendance reminders, and provide feedback on attendance trends. The system has been designed in two layers: the cloud layer, to store and manage attendance data, and an edge layer that allows users to control the attendance system from their device. This system utilizes a combination of real-time location tracking, facial recognition, and fingerprint scanning, which allows for quick attendance identification. The results of our study show that this system can offer educational organizations a cost-effective, secure, and comprehensive solution for attendance management.

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