

# QR Based Attendance System

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**Abstract:** *QR-based attendance systems leverage QR codes to identify individuals, streamlining attendance tracking in educational and other settings. They comprise a backend database for user information, classes, and attendance records, and a frontend user interface for interaction. The precision of this system prevents proxy attendance, ensuring accurate attendance records by requiring each individual to scan their unique QR code.*

*QR attendance systems offer flexibility. Administrators can effortlessly add or remove participants, classes, and attendance criteria. They can also connect with other tools like student databases for a seamless experience. These systems leverage QR codes for marking attendance. Unique QR codes are assigned to individuals and scanned with a mobile device or camera. Each QR code stores data such as name, identification number, and other pertinent information.*

*This system replaces old-fashioned attendance methods like sign-in sheets, roll-calls, and swipe cards. It's accurate, error-free, and saves time. Attendance information is available instantly, allowing teachers, and administrators to track attendance in real-time. The QR code system is safe because each code is unique and can only be used once. Only authorized people can mark attendance, which cuts down on scams and misuse. Finally, this system is cheap and doesn't need much upkeep or infrastructure*

**Keywords:** Attendance monitoring

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