

# **Student Attendance System using QR CODE**

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**Abstract:** *The increasing demand for efficient and accurate attendance management systems in educational institutions has led to the development of a QR Code Scanning Attendance System. This project aims to streamline the attendance-taking process by leveraging QR code technology, thereby minimizing the time and effort associated with traditional methods. The application consists of a user-friendly mobile interface for students and a robust backend for teachers and administrators. Teachers can generate unique QR codes for each class session, which students scan upon arrival to mark their attendance. This automated process not only enhances accuracy but also provides real-time attendance records, easily accessible through an admin dashboard. The system is designed to be secure, efficient, and scalable, utilizing modern technologies such as Flutter for mobile development and Node.js for the backend.*

**Keywords:** *Attendance Management, QR Code Scanning, Mobile Application Educational Technology, Real-time Tracking, User Interface, Backend Development Data Security, User Acceptance Testing*

