ABSTRAK

PENERAPAN PRESENSI SISWA BERBASIS BARCODE MENGGUNAKAN TEKNOLOGI ME-QR PADA SISWA BERBASIS MOBILE
(STUDY KHUSUS: SMPN 9 BANDAR LAMPUNG)

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Pendidikan merupakan aspek mendasar dalam pembangunan bangsa dan pembentukan karakter generasi penerus. Melalui pendidikan, individu tidak hanya memperoleh pengetahuan, tetapi juga nilai-nilai kedisiplinan, tanggung jawab, dan keterampilan hidup. Dalam menjalankan proses pendidikan, kehadiran siswa menjadi indikator penting dalam menilai kedisiplinan dan partisipasi aktif dalam proses belajar mengajar.

Metode yang digunakan adalah metode kuantitatif dengan pendekatan studi kasus. Data dikumpulkan melalui observasi, wawancara, dan kuesioner kepada siswa. Sistem presensi dibuat menggunakan aplikasi mobile berbasis Kodular yang terintegrasi dengan QR-Code.

Hasil penelitian menunjukkan bahwa sistem presensi berbasis barcode lebih efisien dan akurat. Waktu absensi menjadi lebih singkat, kesalahan pencatatan berkurang, kepuasan pengguna meningkat, dan tingkat kehadiran siswa menjadi lebih baik.

Dapat disimpulkan bahwa sistem presensi berbasis barcode menggunakan teknologi Me-QR pada perangkat mobile terbukti efektif, efisien, akurat, dan dapat meningkatkan kedisiplinan siswa.

Kata Kunci: Presensi Siswa, Barcode, QR-Code, Mobile, SMPN 9 Bandar Lampung.

ABSTRACT

STUDENT ATTENDANCE SYSTEM USING BARCODE TECHNOLOGY AT STATE JUNIOR HIGH SCHOOL *(SMPN)* 9 BANDAR LAMPUNG

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This study explores the development and implementation of a barcode-based student attendance system at SMPN 9 Bandar Lampung. Education plays a fundamental role in national development and in shaping the character of future generations. Within the educational process, student attendance serves as a key indicator of discipline and active participation in learning activities. However, traditional manual attendance procedures are often time-consuming, prone to recording errors, and inefficient in monitoring student discipline. A quantitative research method with a case study approach was employed. Data were collected through observations, interviews, and questionnaires administered to students. The attendance system was developed using a mobile application built with Kodular and integrated with QR-Code technology, enabling students to record attendance quickly and accurately. The findings revealed that the barcode-based attendance system is significantly more efficient and accurate than manual methods. It reduces the time required for attendance, minimizes recording errors, increases user satisfaction, and leads to improved student attendance rates. Overall, the mobile-based attendance system utilizing Me-QR technology is proven to be effective, efficient, and capable of enhancing student discipline.

Keywords: Student Attendance, Barcode Technology, QR-Code, Mobile Application, Junior High School