

APLIKASI MONITORING KEHADIRAN AKADEMIK SISWA TEINTEGRASI ORANG TUA DALAM PROSES PENDIDIKAN ANAK DI SMPN 3 SIAK KECIL BERBASIS WEB

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ABSTRAK

Penelitian ini dilatarbelakangi oleh proses pencatatan kehadiran siswa di SMPN 3 Siak Kecil yang masih dilakukan secara manual sehingga memerlukan waktu lama, berpotensi menimbulkan kesalahan pencatatan, serta kurang memberikan transparansi kepada orang tua dalam kehadiran kehadiran siswa. Penelitian ini bertujuan membangun Aplikasi Monitoring Kehadiran Akademik Siswa Terintegrasi Orang Tua dalam Proses Pendidikan Anak di SMPN 3 Siak Kecil Berbasis *Web*. Metode yang digunakan adalah *Waterfall* yang meliputi tahap analisis, desain, implementasi, pengujian, dan pemeliharaan. Aplikasi menyediakan fitur pengelolaan data akademik, absensi siswa, rekapitulasi kehadiran, pemantauan kehadiran, serta notifikasi *WhatsApp* otomatis kepada orang tua. Hasil penelitian menunjukkan bahwa aplikasi berhasil diimplementasikan sesuai kebutuhan pengguna. Berdasarkan pengujian *Black Box Testing*, seluruh fitur utama berjalan sesuai fungsinya. Aplikasi ini mampu meningkatkan pengelolaan kehadiran siswa, mempercepat rekapitulasi, mengurangi kesalahan pencatatan, serta meningkatkan transparansi informasi kehadiran anak antara sekolah dan orang tua secara *real-time*.

Kata Kunci: Pemantauan, *Website*, *Waterfall*, Notifikasi, *WhatsApp*.

**WEB-BASED STUDENT ACADEMIC ATTENDANCE MONITORING
APPLICATION INTEGRATING PARENTS IN THE CHILDREN'S
EDUCATION PROCESS AT SMPN 3 SIAK KECIL**

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ABSTRACT

This research was motivated by the fact that student attendance recording at SMPN 3 Siak Kecil was still performed manually, a process that was time-consuming, prone to recording errors, and lacked transparency for parents regarding student attendance. The study aimed to develop a web-based application for monitoring student academic attendance that integrates parents into the educational process at SMPN 3 Siak Kecil. The Waterfall methodology was employed, encompassing the stages of analysis, design, implementation, testing, and maintenance. The application provides features for academic data management, student attendance tracking, attendance summarization, monitoring, and automated WhatsApp notifications for parents. The results indicate that the application was successfully implemented in accordance with user requirements. Black Box testing confirmed that all key features functioned as intended. The application improves student attendance management, accelerates data summarization, reduces recording errors, and enhances real-time transparency regarding student attendance information between the school and parents.

Keywords: *Monitoring, Website, Waterfall, Notifications, WhatsApp*