

Wanda Kusumawati, 2025. *Pengembangan Sistem Absensi Digital Terintegrasi Fitur Lokasi Untuk Siswa PKL Di SMKN 1 Labang*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Nuru Aini S. Kom, M. Kom.

Abstrak

Penelitian ini bertujuan untuk mengembangkan sistem absensi digital terintegrasi fitur lokasi untuk siswa PKL di SMKN 1 Labang. Latar belakang penelitian ini adalah penggunaan sistem manual berbasis jurnal oleh siswa SMKN 1 Labang untuk mencatat kehadiran dan aktivitas harian selama PKL. Sistem ini dinilai kurang efektif karena rendahnya akurasi, sulitnya akses data, dan lambatnya pemantauan. Hasil wawancara dengan penanggung jawab PKL menunjukkan bahwa metode manual menyulitkan guru dalam memantau kehadiran dan permasalahan siswa secara real-time, terutama saat terjadi perubahan kontak tanpa pemberitahuan. Metode pengembangan yang digunakan adalah model *waterfall*, melalui tahapan analisis kebutuhan, perancangan sistem, implementasi, pengujian, dan pemeliharaan. Instrumen yang digunakan dalam penelitian ini yaitu instrument pengujian *functional suitability*, *instrument usability* dan instrument *maintainability*. Pengujian sistem mengacu pada standar ISO/IEC 25010 dengan fokus pada aspek *functional suitability*, *usability*, *maintainability*, dan *performance efficiency*. Hasil validasi oleh ahli menunjukkan sistem mencapai skor 100% pada aspek fungsional dan dinyatakan sangat layak. Uji coba kepada 30 responden menunjukkan tingkat usability sebesar 89,83%, termasuk kategori sangat baik. Aspek *performance efficiency* ditunjukkan dengan waktu muat halaman rata-rata 2,7 detik, dan *maintainability* dinyatakan sangat mudah dirawat. Kesimpulannya, sistem ini membuat proses absensi siswa selama PKL menjadi lebih akurat, efisien, transparan, serta memudahkan guru memantau perkembangan siswa secara berkala.

Kata Kunci: absensi digital, lokasi, PKL, sistem informasi, ISO/IEC 25010

Wanda Kusumawati, 2025. *Development of a Digital Attendance System Integrated with Location Features for Pkl Students at SMKN 1 Labang*. Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, Universitas Trunojoyo Madura. Advisor: Nuru Aini S. Kom., M. Kom.

Abstract

This study aims to develop a digital attendance system integrated with location features for internship students at SMKN 1 Labang. The background of this study is the use of a manual journal-based system by SMKN 1 Labang students to record attendance and daily activities during internship. This system is considered ineffective due to low accuracy, difficult data access, and slow monitoring. The results of interviews with the person in charge of internship indicate that the manual method makes it difficult for teachers to monitor student attendance and problems in real-time, especially when contact changes occur without notification. The development method used is the waterfall model, through the stages of needs analysis, system design, implementation, testing, and maintenance. The instruments used in this study are functional suitability testing instruments, usability instruments, and maintainability instruments. System testing refers to the ISO/IEC 25010 standard with a focus on functional suitability, usability, maintainability, and performance efficiency aspects. The results of validation by experts showed that the system achieved a score of 100% in the functional aspect and was declared very feasible. Trials with 30 respondents showed a usability level of 89.83%, included in the very good category. Performance efficiency was demonstrated by an average page load time of 2.7 seconds, and maintainability was found to be very easy. In conclusion, this system makes student attendance during internships more accurate, efficient, and transparent, and makes it easier for teachers to regularly monitor student progress.

Keyword: *digital attendance, location, street vendors, information system, ISO/IEC 25010*