

Ahmad Noor Alfinuha Shidiqqi Aldafian. 2026. *Pengembangan Sistem Informasi Praktik Kerja Lapangan (PKL) Berbasis Web dengan Automated Email Reminders di SMKN 1 Labang*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Laili Cahyani S.Kom., M.Kom.

ABSTRAK

Abstrak: Pengelolaan Praktik Kerja Lapangan (PKL) di SMKN 1 Labang masih dilakukan secara manual sehingga menyebabkan kendala dalam administrasi, monitoring kegiatan, pengelolaan jurnal, dan proses penilaian. Penelitian ini bertujuan untuk mengembangkan serta mengevaluasi kelayakan Sistem Informasi Praktik Kerja Lapangan berbasis web dengan *Automated Email Reminders*. Metode penelitian yang digunakan adalah *Research and Development (R&D)* dengan model pengembangan perangkat lunak *Waterfall* melalui tahapan *communication, planning, modelling, construction, dan deployment*. Sistem dikembangkan dengan empat hak akses pengguna yaitu admin, guru pembimbing, siswa, dan DUDI. Evaluasi kualitas sistem menggunakan standar *ISO/IEC 25010* yang meliputi aspek *functional suitability, usability, maintainability, performance efficiency, dan compatibility*. Hasil penelitian menunjukkan pengujian *functional suitability* memperoleh nilai 99,58% dengan kategori sangat layak, *usability* memperoleh nilai 81,87% dengan kategori sangat layak, *maintainability* memenuhi aspek *instrumentation, consistency, dan simplicity*, serta *performance efficiency* memperoleh GTmetrix Grade B dengan LCP 3,2 detik. Pengujian *compatibility* menunjukkan sistem dapat berjalan dengan baik pada beberapa browser berbeda tanpa mengalami kendala fungsi maupun tampilan. Berdasarkan hasil tersebut, Sistem Informasi Praktik Kerja Lapangan berbasis web dengan *Automated Email Reminders* dinyatakan layak digunakan untuk mendukung pengelolaan kegiatan PKL di SMKN 1 Labang.

Kata-Kata kunci: *Automated Email Reminders, ISO/IEC 25010, Praktik Kerja Lapangan, Sistem Informasi, Website.*

Ahmad Noor Alfinuha Shidiqqi Aldafian. 2026. *Development of a Web-Based Internship Information System (PKL) with Automated Email Reminders at SMKN 1 Labang*. Undergraduate Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, Universitas Trunodjoyo Madura. Supervisor: Laili Cahyani, S.Kom., M.Kom.

ABSTRACT

Abstract: The management of Industrial Work Practice (Praktik Kerja Lapangan/PKL) at SMKN 1 Labang is still carried out manually, causing several problems in administration, activity monitoring, journal management, and assessment processes. This study aims to develop and evaluate the feasibility of a web-based Industrial Work Practice Information System with Automated Email Reminders. The research method used is Research and Development (R&D) with the Waterfall software development model through the stages of communication, planning, modelling, construction, and deployment. The system was developed with four user access roles, namely administrator, supervising teacher, student, and industry partner (DUDI). The system quality evaluation was conducted using the ISO/IEC 25010 standard, including the aspects of functional suitability, usability, maintainability, performance efficiency, and compatibility. The results showed that the functional suitability test obtained a score of 99.58% with a very feasible category, usability obtained a score of 81.87% with a very feasible category, maintainability fulfilled the aspects of instrumentation, consistency, and simplicity, while performance efficiency achieved GTmetrix Grade B with an LCP value of 3.2 seconds. The compatibility test showed that the system could run properly on several different browsers without functional or display issues. Based on these results, the web-based Industrial Work Practice Information System with Automated Email Reminders is considered feasible to support PKL management activities at SMKN 1 Labang.

Keywords: *Automated Email Reminders, ISO/IEC 25010, Information System, Internship Program, Website.*