

Mutmainnah. 2025. *Pengembangan Sistem Informasi Penerimaan Peserta Didik Baru Berbasis Website di SMK Ifadah*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Nuru Aini, S.Kom., M.Kom.

ABSTRAK

Transformasi digital di dunia pendidikan menuntut sistem yang dapat mempercepat dan mempermudah proses administrasi, termasuk dalam Penerimaan Peserta Didik Baru. SMK Ifadah yang masih menggunakan sistem manual mengalami kendala seperti keterlambatan berkas, kesalahan input data, dan terbatasnya akses informasi. Penelitian ini bertujuan untuk mengembangkan sistem informasi PPDB berbasis *website* untuk meningkatkan efisiensi, akurasi, dan transparansi. Selain itu, dilakukan pengujian untuk mengetahui kualitas sistem yang dikembangkan. Metode pengembangan menggunakan *Waterfall*, dengan PHP, Laravel 12, dan MySQL. Fitur utama sistem mencakup pengelolaan data pendaftar, jurusan, tahun ajaran, pengumuman, dan pembayaran. Berdasarkan pengujian ISO 25010, sistem memperoleh hasil: *Functional Suitability* 100%, *Usability* 89,86%, *Performance Efficiency* dengan waktu akses rata-rata 2,92 detik, dan *Maintainability* 100%. Hasil ini menunjukkan bahwa sistem layak dan efektif dalam mendukung digitalisasi proses PPDB di SMK Ifadah.

Kata Kunci: ISO 25010, Laravel, PPDB, Sistem Informasi, *Waterfall*.

Mutmainnah. (2025). *Development of a Web-Based New Student Admission Information System at SMK Ifadah. Undergraduate Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, Trunojoyo University Madura. Supervisor: Nuru Aini, S.Kom., M.kom.*

ABSTRACT

The digital transformation in education demands systems that can accelerate and simplify administrative processes, including student admission (PPDB). SMK Ifadah, which still uses a manual system, faces several issues such as delays in document submission, data entry errors, and limited access to information. This study aims to develop a web-based PPDB information system to improve efficiency, accuracy, and transparency. In addition, system testing was conducted to evaluate the quality of the developed system. The development method used is the Waterfall model, with PHP programming language, Laravel version 12 framework, and MySQL database. The main features of the system include the management of applicants' data, majors, academic years, announcements, and payments. Based on ISO 25010 testing, the system achieved the following results: Functional Suitability 100%, Usability 89.86%, Performance Efficiency with an average access time of 2.92 seconds, and Maintainability 100%. These results indicate that the system is feasible and effective in supporting the digitalization of the PPDB process at SMK Ifadah.

Keywords: ISO 25010, Laravel, PPDB, Information System, Waterfall.