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**RANCANG BANGUN SISTEM INFORMASI MONITORING KEGIATAN
MAGANG MAHASISWA BERBASIS WEB PADA INSTITUT WIDYA
PRATAMA**, di bawah bimbingan Christian Yulianto Rusli, M.Kom., dan Bambang
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362 + xxi halaman / 278 gambar / 59 tabel / 3 lampiran / 29 pustaka

ABSTRAK

Penelitian ini bertujuan untuk merancang dan membangun Sistem Informasi Monitoring Kegiatan Magang Mahasiswa di Institut Widya Pratama Pekalongan. Permasalahan utama yang melatarbelakangi penelitian ini adalah proses pencatatan dan pemantauan kegiatan magang yang masih dilakukan secara manual, sehingga menimbulkan keterlambatan, risiko kehilangan dokumen, serta kesulitan dalam memantau perkembangan mahasiswa secara menyeluruh oleh pihak terkait. Ruang lingkup penelitian meliputi pengelolaan data mahasiswa magang, Learning Plan, presensi, logbook harian, bimbingan, serta penilaian mahasiswa. Metode pengembangan sistem yang digunakan adalah metode Waterfall, yang terdiri dari tahapan requirements analysis, design, development, testing, dan maintenance. Perancangan sistem menggunakan Unified Modeling Language (UML) dan Lembar Kerja Tampilan (LKT), sedangkan implementasi sistem dikembangkan berbasis web menggunakan bahasa pemrograman PHP dengan framework CodeIgniter 4. Pengujian sistem dilakukan melalui Graphical User Interface (GUI) Testing menggunakan Katalon Studio dan User Acceptance Test (UAT) melalui wawancara dan kuesioner. Hasil pengujian menunjukkan bahwa seluruh fitur sistem berfungsi dengan baik dan sistem diterima oleh pengguna dengan tingkat kepuasan yang tinggi. Kesimpulan dari penelitian ini adalah bahwa sistem yang dibangun mampu meningkatkan efisiensi, transparansi, dan efektivitas dalam monitoring kegiatan magang mahasiswa. Adapun saran pengembangan selanjutnya meliputi penambahan fitur unggah tugas akhir magang, pengembangan presensi berbasis teknologi seperti QR Code atau geolocation, serta peningkatan aspek usability, keamanan, dan performa sistem.

Kata Kunci: *Sistem Informasi, Monitoring Magang, Waterfall, CodeIgniter 4*

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DESIGN AND DEVELOPMENT OF A WEB-BASED STUDENT INTERNSHIP ACTIVITY MONITORING INFORMATION SYSTEM AT INSTITUT WIDYA PRATAMA, *under the guidance of* Christian Yulianto Rusli, M.Kom., *and* Bambang Ismanto, M.Kom.

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ABSTRACT

This study aims to design and develop a Student Internship Monitoring Information System at Institut Widya Pratama Pekalongan. The main problem addressed in this research is the manual process of recording and monitoring internship activities, which causes delays, document loss, and difficulties in comprehensively tracking student progress. The scope of this study includes the management of internship student data, Learning Plans, attendance, daily logbooks, supervision activities, and student assessments. The system development method used is the Waterfall method, which consists of requirements analysis, design, development, testing, and maintenance stages. The system design utilizes Unified Modeling Language (UML) and Interface Design Worksheets, while the implementation is carried out as a web-based system using PHP programming language with the CodeIgniter 4 framework. System testing is conducted through Graphical User Interface (GUI) Testing using Katalon Studio and User Acceptance Testing (UAT) through interviews and questionnaires. The results indicate that all system features function properly and the system is well accepted by users with a high level of satisfaction. In conclusion, the developed system is able to improve efficiency, transparency, and effectiveness in monitoring student internship activities. Further development is recommended by adding an internship final report upload feature, implementing technology-based attendance such as QR codes or geolocation, and enhancing system usability, security, and performance.

Keywords: *Information System, Internship Monitoring, Waterfall Method, CodeIgniter 4*