

FAUZITA FITRIYANI, 22.240.0040

SISTEM EVALUASI DAN PELAPORAN PRAKTIK KERJA LAPANGAN (PKL) SISWA DI SEKOLAH MENENGAH KEJURUAN WIRA BAHARI KABUPATEN PEKALONGAN

Di bawah bimbingan Eny Jumiati, M.Kom. dan Wahyu Setianto, M.Kom.

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ABSTRAK

Praktik Kerja Lapangan (PKL) merupakan kegiatan pembelajaran yang bertujuan memberikan pengalaman kerja kepada siswa Sekolah Menengah Kejuruan (SMK). Proses evaluasi dan pelaporan PKL di SMK Wira Bahari masih dilakukan secara konvensional, yaitu pengisian jurnal kegiatan secara manual, penilaian menggunakan formulir cetak, serta rekapitulasi laporan yang belum terintegrasi. Kondisi tersebut menyebabkan proses pengelolaan data PKL kurang efektif, pencarian data membutuhkan waktu lama, serta berisiko terjadi kesalahan pencatatan dan kehilangan dokumen. Penelitian ini bertujuan untuk membangun Sistem Evaluasi dan Pelaporan Praktik Kerja Lapangan berbasis website yang dapat membantu proses pengisian jurnal, monitoring presensi, penilaian, dan penyusunan laporan akhir PKL. Metode pengembangan sistem yang digunakan adalah System Development Life Cycle (SDLC) dengan model Waterfall yang meliputi tahapan communication, planning, modeling, construction, dan deployment. Sistem dikembangkan menggunakan bahasa pemrograman PHP dengan framework CodeIgniter 4 serta basis data MySQL. Pengujian sistem dilakukan menggunakan metode White Box Testing, Black Box Testing, dan User Acceptance Test (UAT). Hasil pengujian menunjukkan bahwa sistem berjalan sesuai dengan kebutuhan fungsional, dengan hasil White Box Testing pada fungsi validasi jurnal memperoleh nilai Cyclomatic Complexity sebesar 3 dan seluruh jalur independen berhasil diuji. Hasil UAT terhadap 41 siswa menunjukkan bahwa sistem dapat diterima dengan baik, lebih dari 97,6% responden menyatakan sistem membantu proses pengelolaan data, penilaian, serta penyusunan laporan PKL. Berdasarkan hasil penelitian, sistem yang dikembangkan mampu meningkatkan efektivitas pengelolaan PKL dan mempermudah proses evaluasi serta pelaporan secara terkomputerisasi. Saran pengembangan selanjutnya adalah menambahkan fitur pengembangan sistem seperti integrasi notifikasi dan peningkatan keamanan data agar sistem dapat digunakan secara lebih optimal.

Kata Kunci: Sistem Informasi, Praktik Kerja Lapangan, Website, Waterfall, Evaluasi PKL

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Under the supervision of Eny Jumati, M.Kom. and Wahyu Setianto, M.Kom.

xvii+168 Pages / 176 Figures / 26 Tables / 20 References

ABSTRACT

Practical Work Experience (PKL) is a learning activity that aims to provide work experience for Vocational High School (SMK) students. The evaluation and reporting process of PKL at SMK Wira Bahari is still conducted conventionally, namely by manually filling out activity journals, using printed forms for assessments, and processing reports that are not yet integrated. These conditions cause the management of PKL data to be less effective, require a long time for data searching, and have the potential to cause recording errors and document loss. This research aims to develop a web-based Practical Work Experience Evaluation and Reporting System that can assist the process of journal submission, attendance monitoring, assessment, and preparation of final PKL reports. The system development method used is the System Development Life Cycle (SDLC) with the Waterfall model, consisting of communication, planning, modeling, construction, and deployment stages. The system was developed using the PHP programming language with the CodeIgniter 4 framework and MySQL database. System testing was carried out using White Box Testing, Black Box Testing, and User Acceptance Test (UAT) methods. The test results show that the system runs according to functional requirements, with White Box Testing results on the journal validation function obtaining a Cyclomatic Complexity value of 3, and all independent paths successfully tested. The UAT results involving 41 students indicate that the system is well accepted, and more than 97,6% of respondents stated that the system helps the process of data management, assessment, and PKL report preparation. Based on the research results, the developed system can improve the effectiveness of PKL management and facilitate the evaluation and reporting process in a computerized manner. Future development suggestions include adding system features such as notification integration and improving data security so that the system can be used more optimally.

Keywords: *Information System, Practical Work Experience, Website, Waterfall, PKL Evaluation*