

ABSTRAK

Pengelolaan data peserta magang di PT Semen Baturaja masih dilakukan menggunakan pencatatan manual dan beberapa berkas *spreadsheet* yang terpisah. Kondisi tersebut menyebabkan proses pencarian, pembaruan, pemantauan, dan penyusunan laporan menjadi kurang efektif serta berisiko menimbulkan kesalahan dan duplikasi data. Penelitian ini bertujuan membangun aplikasi berbasis web untuk membantu proses pengelolaan dan monitoring peserta magang secara terintegrasi. Metode pengembangan sistem yang digunakan adalah *User-Centered Design* (UCD), yang menempatkan kebutuhan dan pengalaman pengguna sebagai dasar dalam proses perancangan aplikasi. Tahapan penelitian meliputi identifikasi masalah, studi literatur, pengumpulan data melalui observasi dan wawancara, analisis kebutuhan pengguna, perancangan antarmuka, pembuatan prototipe, implementasi, dan pengujian sistem. Selain itu, metode *Simple Scoring Algorithm* (SSA) diterapkan untuk menghitung nilai akhir peserta magang berdasarkan enam kriteria, yaitu kemampuan belajar, kehadiran, keterampilan literasi, keaktifan, analisis masalah, dan laporan. Aplikasi dikembangkan menggunakan *framework* CodeIgniter 4 dan basis data MySQL. Hasil penelitian berupa aplikasi yang memiliki fitur pendaftaran magang, verifikasi berkas, pengelolaan data peserta, absensi, unggah laporan, monitoring kegiatan, penilaian, rekapitulasi data, serta penerbitan surat keterangan selesai magang. Berdasarkan hasil pengujian, seluruh fitur aplikasi dapat berjalan sesuai dengan fungsi yang telah dirancang. Dengan demikian, aplikasi ini dapat membantu proses pengelolaan, monitoring, dan penilaian peserta magang menjadi lebih efektif, terstruktur, terintegrasi, dan terukur.

Kata kunci: aplikasi berbasis web, monitoring, peserta magang, *User-Centered Design*, *Simple Scoring Algorithm*.

ABSTRACT

The management of internship participant data at PT Semen Baturaja is still carried out through manual records and separate spreadsheet files. This condition makes the processes of searching, updating, monitoring, and preparing reports less effective and increases the risk of data errors and duplication. This study aims to develop a web-based application to support the integrated management and monitoring of internship participants. The system development method used is User-Centered Design (UCD), which places user needs and experiences at the center of the application design process. The research stages include problem identification, literature review, data collection through observation and interviews, user needs analysis, interface design, prototyping, system implementation, and testing. In addition, the Simple Scoring Algorithm (SSA) is applied to calculate the final scores of internship participants based on six criteria: learning ability, attendance, literacy skills, activeness, problem analysis, and reports. The application was developed using the CodeIgniter 4 framework and MySQL database. The result of this study is an application that provides features for internship registration, document verification, participant data management, attendance, report submission, activity monitoring, assessment, data recapitulation, and the issuance of internship completion certificates. Based on the testing results, all application features functioned according to the designed requirements. Therefore, this application can support a more effective, structured, integrated, and measurable process of managing, monitoring, and assessing internship participants.

Keywords: web-based application, monitoring, internship participants, User-Centered Design, Simple Scoring Algorithm.