ROFIAN BUDIANTO, 22.230.0120

RANCANG BANGUN SISTEM PENERIMAAN MAGANG BERBASIS WEB DENGAN NOTIFIKASI REALTIME BERBASIS SMTP PADA BADAN PUSAT STATISTIK KOTA PEKALONGAN. di bawah bimbingan Bapak Sattriedi Wahyu Binabar, M.Kom. dan Bapak Wachid Darmawan, M.Kom.

183 + xiv halaman / 85 gambar / 9 tabel / 32 daftar pustaka (2016 - 2024)

ABSTRAK

Badan Pusat Statistik Kota Pekalongan merupakan instansi pemerintah penyelenggara kegiatan statistik yang dituntut bekerja teliti dan tertib dalam setiap proses administrasi. Namun, penerimaan peserta magang masih dilakukan secara manual, sehingga pelamar harus datang langsung membawa berkas fisik. Proses ini membuat alur pengajuan dan verifikasi menjadi lambat, kurang fleksibel, rentan kesalahan pencatatan/kehilangan data, serta sering terjadi keterlambatan konfirmasi status yang menimbulkan ketidakpastian bagi pelamar dan berdampak pada kuota magang yang tidak optimal. Untuk mengatasi permasalahan tersebut, penelitian ini merancang Sistem Penerimaan Magang Berbasis Web di BPS Kota Pekalongan. Sistem ini memfasilitasi pengajuan lamaran, pengelolaan data pelamar, verifikasi berkas, serta notifikasi status lamaran secara realtime melalui layanan SMTP. Pengembangan sistem menggunakan metode Waterfall, dan pengujian dilakukan dengan White Box, Black Box Testing serta User Acceptance Testing (UAT) agar sistem berjalan sesuai kebutuhan dan meningkatkan efisiensi serta transparansi proses penerimaan magang.

Kata Kunci: Sistem Informasi, Pendaftaran Magang, Berbasis Web, Waterfall, SMTP

ROFIAN BUDIANTO, 22.230.0120

DESIGN AND DEVELOPMENT OF A WEB-BASED INTERNSHIP RECRUITMENT SYSTEM WITH REAL-TIME SMTP-BASED NOTIFICATIONS AT STATISTICS INDONESIA (BPS) PEKALONGAN CITY, under the supervision of Mr. Sattriedi Wahyu Binabar, M.Kom. and Mr. Wachid Darmawan, M.Kom.

183 + xiv pages / 85 figures / 9 tables / 32 references (2016–2024)

ABSTRACT

The Pekalongan City Statistics Indonesia (BPS) is a government institution responsible for conducting statistical activities and is required to work accurately and systematically in every administrative process. However, the internship recruitment process is still handled manually, requiring applicants to come in person and submit physical documents. This makes the submission and verification workflow slow, less flexible, prone to recording errors or data loss, and often results in delayed status confirmations that create uncertainty for applicants and lead to suboptimal use of internship quotas. To address these issues, this study designs a web-based internship recruitment system for BPS Pekalongan City. The system supports application submission, applicant data management, document verification, and real-time application status notifications via SMTP services. The system is developed using the Waterfall method, and testing is carried out using White Box testing, Black Box testing, and User Acceptance Testing (UAT) to ensure the system meets user requirements and improves the efficiency and transparency of the internship recruitment process.

Keywords: Information System, Internship Registration, Web-Based, Waterfall, SMTP