

SAFIRA MAULIDA NAJAH, 21.240.0037

SISTEM MANAJEMEN KKN BERBASIS API DI LP2M UIN KH. ABDURRAHMAN WAHID PEKALONGAN dibawah bimbingan Bapak Mosses Aidjili, M.Kom dan Bapak Victorianus Aries Siswanto, M.Si
188 halaman / 127 gambar / 23 tabel / 21 daftar Pustaka.(2019-2023)

ABSTRAK

Pengelolaan Kuliah Kerja Nyata (KKN) di LP2M UIN KH. Abdurrahman Wahid Pekalongan selama ini masih dilakukan secara manual melalui Google Form, sehingga menimbulkan kendala berupa inefisiensi dan tingginya potensi kesalahan dalam input data mahasiswa. Untuk menjawab permasalahan tersebut, penelitian ini mengembangkan sistem manajemen KKN berbasis Application Programming Interface (API) yang terhubung dengan Sistem Informasi Akademik Terpadu (SIKADU). Metode pengembangan yang digunakan adalah waterfall, dengan tahapan analisis kebutuhan, perancangan sistem, implementasi, pengujian, hingga tahap operasional dan pemeliharaan. Perancangan dilakukan dengan memanfaatkan flowchart, Unified Modeling Language (UML), serta Lembar Kerja Tampilan (LKT), sedangkan implementasi menggunakan database MySQL dan API yang terintegrasi dengan SIKADU. Hasil pengujian white box membuktikan logika program berjalan sesuai alur, sedangkan pengujian black box menunjukkan fungsi input-output berjalan normal dan integrasi API berhasil. UAT juga memberikan hasil positif, dengan 84% pengguna menyatakan puas karena sistem lebih cepat, akurat, dan mudah digunakan. Hasil penelitian memperlihatkan bahwa sistem yang dibangun mampu mempercepat pengelolaan data KKN secara signifikan, di mana durasi pengolahan yang semula membutuhkan waktu sekitar satu bulan dapat dipersingkat menjadi beberapa hari. Selain itu, sistem juga memudahkan pengelolaan presensi, laporan harian, serta laporan akhir mahasiswa dan Dosen Pembimbing Lapangan (DPL) melalui satu platform terpusat. Kesimpulan penelitian menunjukkan bahwa sistem manajemen KKN berbasis API efektif meningkatkan efisiensi, akurasi, serta transparansi administrasi KKN. Ke depan, disarankan agar sistem dikembangkan lebih lanjut dengan dukungan multi-platform dan penyediaan fitur pelaporan yang lebih lengkap.

Kata Kunci: Sistem Manajemen, KKN, API, SIKADU, LP2M

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ABSTRACT

The Community Service Program (KKN) management at the LP2M UIN KH. Abdurrahman Wahid Pekalongan has been conducted manually through Google Forms, resulting in inefficiency and a high potential for errors in student data input. To address these issues, this study developed an Application Programming Interface (API)-based KKN management system connected to the Integrated Academic Information System (SIKADU). The development method used was the waterfall method, with stages including needs analysis, system design, implementation, testing, and operation and maintenance. The design utilized flowcharts, Unified Modeling Language (UML), and Display Worksheets (LKT), while the implementation utilized a MySQL database and API integrated with SIKADU. White-box testing results demonstrated that the program logic ran according to the flow, while black-box testing demonstrated that the input-output functions ran normally and the API integration was successful. The UAT (Unified Assessment Test) also yielded positive results, with 84% of users expressing satisfaction, as the system was faster, more accurate, and easier to use. The research results show that the system developed significantly accelerates KKN data management, reducing the processing time, which initially took approximately one month, to just a few days. Furthermore, the system also simplifies the management of attendance, daily reports, and final reports for students and Field Supervisors (DPL) through a single, centralized platform. The research findings indicate that the API-based KKN management system effectively improves the efficiency, accuracy, and transparency of KKN administration. Going forward, it is recommended that the system be further developed with multi-platform support and more comprehensive reporting features.

Keywords: Management System, KKN, API, SIKADU, LP2M