

DONI DWI SAPUTRO, 22.240.0091

*APLIKASI SIMEGA (SISTEM INFORMASI MANAJEMEN PEMAGANGAN)*

*UNTUK EFISIENSI PENGELOLAAN MAGANG DI DINAS KOMUNIKASI DAN  
INFORMATIKA KOTA PEKALONGAN,*

*di bawah bimbingan Bapak Ari Putra Wibowo, M.Kom dan Bu Devi Sugianti,  
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*70 + xiv halaman / 44 gambar / 3 tabel / 2 lampiran / 19 pustaka (2020 - 2025)*

### **ABSTRAKSI**

*Pengelolaan kegiatan magang di Dinas Komunikasi dan Informatika Kota Pekalongan sebelumnya masih dilakukan secara komputerisasi sederhana dan belum terintegrasi, sehingga menyebabkan proses administrasi kurang efisien, rawan kesalahan data, serta menyulitkan monitoring dan pelaporan kegiatan magang. Penelitian ini bertujuan untuk merancang dan membangun Aplikasi SiMega (Sistem Informasi Manajemen Pemagangan) sebagai solusi digital untuk mendukung pengelolaan data magang secara terstruktur dan terpusat. Ruang lingkup penelitian meliputi pengelolaan data peserta magang, pembimbing, logbook aktivitas magang, penilaian, sertifikat, serta notifikasi kegiatan. Metode pengembangan sistem yang digunakan adalah metode Waterfall yang terdiri dari tahap analisis kebutuhan, perancangan sistem, implementasi, pengujian, dan pemeliharaan. Aplikasi dikembangkan berbasis web menggunakan framework CodeIgniter 4 dan basis data MySQL. Hasil penelitian menunjukkan bahwa aplikasi SiMega mampu meningkatkan efisiensi pengelolaan magang, mempermudah proses monitoring dan pencarian data, serta mengurangi risiko ketidakkonsistenan data. Berdasarkan hasil pengujian dan evaluasi pengguna, sistem dinilai layak digunakan dan dapat mendukung proses administrasi magang secara lebih efektif. Namun demikian, sistem masih dapat dikembangkan lebih lanjut melalui penambahan fitur absensi harian terintegrasi, rekapitulasi kegiatan magang secara otomatis, serta penyempurnaan antarmuka pengguna agar lebih intuitif dan responsif.*

**Kata Kunci:** *Sistem Informasi, Magang, Manajemen Pemagangan, Codeigniter 4, Dinkominfo*

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*SIMEGA APPLICATION (INTERNSHIP MANAGEMENT INFORMATION SYSTEM) FOR EFFICIENCY OF INTERNSHIP MANAGEMENT IN THE COMMUNICATION AND INFORMATICS DEPARTMENT OF PEKALONGAN CITY,*

*under the guidance of Mr. Ari Putra Wibowo, M.Kom and Mrs. Devi Sugianti, M.Kom*

*70 + xiv pages / 44 figures / 3 tables / 2 appendices / 19 references (2020 - 2025)*

## **ABSTRACT**

*The internship management process at the Department of Communication and Informatics of Pekalongan City was previously carried out using simple and non-integrated computerization, resulting in inefficient administrative processes, a high risk of data errors, and difficulties in monitoring and reporting internship activities. This study aims to design and develop the SiMega Application (Internship Management Information System) as a digital solution to support structured and centralized internship data management. The scope of this study includes the management of internship participant data, supervisors, activity logbooks, assessments, certificates, and activity notifications. The system development method used is the Waterfall method, which consists of requirements analysis, system design, implementation, testing, and maintenance stages. The application was developed as a web-based system using the CodeIgniter 4 framework and MySQL database. The results show that the SiMega application is able to improve the efficiency of internship management, facilitate monitoring and data retrieval processes, and reduce the risk of data inconsistency. Based on user testing and evaluation results, the system is considered feasible for use and capable of supporting internship administration more effectively. Nevertheless, the system can be further developed by adding integrated daily attendance features, automatic internship activity recap functionalities, and improvements to the user interface to make it more intuitive and responsive.*

**Keywords:** *Information System, Internship, Internship Management, Codeigniter 4, Dinkominfo*