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**SISTEM INFORMASI MANAJEMEN SARANA DAN PRASARANA DI
BADAN PENANGGULANGAN BENCANA DAERAH KABUPATEN
PEKALONGAN BERBASIS WEB**, dibawah bimbingan Much.Rifqi Maulana.
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187 + xix halaman / 123 gambar / 41 tabel / - lampiran / 28 pustaka

ABSTRAK

Pengelolaan inventaris yang efisien sangat penting bagi kelancaran operasional BPBD Kabupaten Pekalongan yang memiliki peran strategis dalam penanganan bencana. Sistem manajemen inventaris yang masih manual berbasis kertas dan spreadsheet menyebabkan risiko kesalahan pencatatan, ketidakkonsistenan data, serta kurangnya efisiensi dalam pelaporan. Penelitian ini bertujuan merancang dan membangun Sistem Informasi Manajemen Inventaris Berbasis Web sebagai solusi. Metode pengembangan menggunakan SDLC model Waterfall, meliputi analisis kebutuhan, perancangan sistem (menggunakan diagram UML dan Lembar Kerja Tampilan), implementasi, serta pengujian menggunakan metode White Box, Black Box, dan User Acceptance Test (UAT). Sistem ini diharapkan dapat meningkatkan akurasi, efisiensi, dan efektivitas dalam pengelolaan inventaris di BPBD Kabupaten Pekalongan.

Kata Kunci: Sistem Informasi, Manajemen Inventaris, BPBD, Web-Based System, Waterfall, UML, UAT.

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WEB-BASED INFRASTRUCTURE AND FACILITIES MANAGEMENT INFORMATION SYSTEM AT THE REGIONAL DISASTER MANAGEMENT AGENCY OF PEKALONGAN REGENCY, Under the supervision of Much. Rifqi Maulana, M.Kom and Agus Ilyas, M.Kom

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ABSTRACT

Efficient inventory management is crucial for the smooth operation of the Regional Disaster Management Agency (BPBD) of Pekalongan Regency, which plays a strategic role in disaster response. The current manual inventory system, which relies on paper and spreadsheets, poses risks of recording errors, data inconsistency, and inefficiencies in reporting. This research aims to design and develop a Web-Based Inventory Management Information System as a solution.

The system development follows the Waterfall model of the Software Development Life Cycle (SDLC), consisting of requirements analysis, system design (utilizing UML diagrams and display worksheets), implementation, and testing using White Box, Black Box, and User Acceptance Testing (UAT) methods. This system is expected to improve accuracy, efficiency, and effectiveness in inventory management at BPBD Pekalongan Regency.

Keywords: Information System, Inventory Management, BPBD, Web-Based System, Waterfall, UML, UAT.