

ABSTRAK

Dinas Pertanian Tanaman Pangan dan Hortikultura Provinsi Sumatera Selatan bertugas mengelola data stok dan harga tanaman pangan dari berbagai kabupaten dan kota. Namun, proses pengelolaan data masih menggunakan Google Form dan Microsoft Excel sehingga pengelolaan dan pelaporan data belum terintegrasi secara optimal. Penelitian ini bertujuan untuk membangun Aplikasi Pengelolaan dan Pelaporan Stok serta Harga Tanaman Pangan Berbasis Website. Metode yang digunakan adalah Extreme Programming (XP) yang terdiri dari tahapan planning, design, coding, dan testing. Sistem dirancang menggunakan Unified Modeling Language (UML), dibangun dengan framework CodeIgniter 4 dan database MySQL, serta diuji menggunakan metode Black Box Testing. Hasil penelitian menunjukkan bahwa aplikasi yang dibangun mampu membantu proses pengelolaan data stok dan harga tanaman pangan, validasi data, serta pembuatan laporan secara lebih efektif, terstruktur, dan terintegrasi. Berdasarkan hasil pengujian, seluruh fitur aplikasi dapat berjalan dengan baik sesuai kebutuhan pengguna.

Kata Kunci: Aplikasi, Pengelolaan, Pelaporn, Situs Web, Stok, Harga, Tanaman Pangan.

ABSTRACT

The Department of Food Crops and Horticulture of South Sumatra Province is responsible for managing food crop stock and price data from various regencies and cities. However, the data management process still relies on Google Forms and Microsoft Excel, resulting in less optimal integration of data management and reporting. This study aims to develop a Website-Based Food Crop Stock and Price Management and Reporting Application. The system was developed using the Extreme Programming (XP) method, which consists of planning, design, coding, and testing stages. The system was modeled using Unified Modeling Language (UML), developed with the CodeIgniter 4 framework and MySQL database, and tested using the Black Box Testing method. The results show that the developed application is capable of supporting stock and price data management, data validation, and report generation in a more effective, structured, and integrated manner. Based on the testing results, all application features function properly according to user requirements.

Keywords: Application, Management, Reporting, Website, Stock, Price, Food Crops.