

ABSTRAK

Pendataan hasil panen di PT Perkebunan Mitra Ogan sebelumnya dilakukan secara manual melalui pencatatan kertas dan rekapitulasi Excel, sehingga sering menimbulkan keterlambatan laporan, duplikasi data, kesalahan pencatatan, serta kesulitan dalam pelacakan data historis. Untuk mengatasi permasalahan tersebut dikembangkan Sistem Informasi Pendataan Hasil Panen Sawit Berbasis Web yang mampu melakukan pencatatan, penyimpanan, verifikasi, serta pelaporan data panen secara terkomputerisasi. Sistem dirancang menggunakan metode *Waterfall* dengan tahapan analisis kebutuhan, perancangan, implementasi, dan pengujian. Teknologi yang digunakan meliputi *PHP*, *MySQL*, *HTML*, *CSS*, dan server lokal *XAMPP*. Sistem menyediakan fitur input hasil panen, pencatatan *QC*, manajemen data kebun, serta pembuatan laporan otomatis harian, mingguan, dan bulanan. Hasil implementasi menunjukkan proses pendataan menjadi lebih cepat, akurat, mudah diakses, dan transparan bagi seluruh pihak terkait. Dengan demikian, sistem ini mampu meningkatkan efektivitas operasional dan mendukung transformasi digital dalam pengelolaan hasil panen di PT Perkebunan Mitra Ogan.

Kata Kunci: Sistem Informasi, Pendataan Hasil Panen, Kelapa Sawit, *Web-Based System*, *Waterfall*, *PHP*, *MySQL*, PT Perkebunan Mitra Ogan.

ABSTRACT

The recording of oil palm harvest data at PT Perkebunan Mitra Ogan was previously conducted manually, causing frequent inaccuracies, data duplication, delayed reporting, and difficulties in accessing historical information. To address these issues, a Web-Based Palm Oil Harvest Data Information System was developed to digitize the processes of collecting, storing, managing, and reporting harvest data. The system was built using PHP and MySQL, while the Waterfall model guided the development stages, including requirement analysis, system design, implementation, and testing. The system provides modules for inputting harvest data, worker information, quality control (QC) data, and plantation data, along with automated reporting features. Testing results show that the system operates accurately, accelerates data processing, and improves accessibility, transparency, and accountability across departments. Overall, the system enhances operational efficiency and supports better decision-making in managing palm oil harvest activities within the company.

Keywords: *Information System, Palm Oil Harvest, Web-Based System, Waterfall Model, Data Management, PT Perkebunan Mitra Ogan, PHP, MySQL, Digitalization.*