ABSTRACT

Micro, Small, and Medium Enterprises (MSMEs) play an important role in Indonesia's economy, including the MSME of Kerupuk Kulit Sapi Pakde Waginu. However, this MSME still faces challenges in managing consignment and product delivery, which are conducted conventionally, such as recording products and partner data in notebooks, as well as undocumented consignment and delivery submissions. This method often leads to recording errors, difficulty in data retrieval, and a lack of transparency. This study aims to develop a web-based consignment and product delivery management module to improve efficiency and accuracy in business operations.

This research uses the Extreme Programming method with an iterative and collaborative approach to ensure that the developed system meets user needs. The system was developed using the Laravel framework, which supports the Model View Controller (MVC) structure, making it easier to manage code and develop features for managing partners, products, consignment, and delivery, and is equipped with digital confirmation to enhance transparency.

The results of the study demonstrate that the developed system can replace manual processes with an effective and structured digital solution. Testing was carried out comprehensively using Unit Testing to ensure each function works as intended, Blackbox Testing to evaluate the system's functionality from the user's perspective, User Acceptance Testing (UAT) to assess system suitability to user needs, and the System Usability Scale (SUS) to measure the system's ease of use. This system not only improves the operational effectiveness and efficiency of the Kerupuk Kulit Sapi Pakde Waginu MSME but also serves as a reference for the development of similar systems in the future.

Keywords: *consignment, Extreme Programming, information system, MSME, product shipment*