ABSTRACT

Rumah Batik Komar is a company in the textile and creative industries that produces batik fabric. The company is renowned for its distinctive production methods, namely batik canting (hand-drawn batik) and batik cap (stamped batik). Based on warehouse data records of raw material stock compared to actual stock conditions, there is a discrepancy in almost every period that exceeds the target (the discrepancy between recorded and actual conditions should be zero). After a root cause analysis, it was found that these recording errors stemmed from a manual work system, a lack of data integration, and poorly structured inter-departmental workflows. This led to negative impacts on the production process, causing delays due to running out of raw material stock. To address this issue and minimize the discrepancy between recorded and actual warehouse stock, an Odoo-based ERP system was designed using the Quickstart methodology. This system design focuses on the core processes affected by the problem: procurement, storage, and production. To ensure these three processes are integrated, the Odoo-based ERP system design also concentrates on the purchase, inventory, and manufacturing modules. The resulting Odoo-based ERP system was verified through Black Box Testing, which showed that all major functionalities of the system performed as expected. The system was also validated using the User Acceptance Testing (UAT) method, achieving a user acceptance score of 90.23% (Very Good). Furthermore, the designed system successfully achieved the target stock discrepancy of zero between system records and actual warehouse conditions during the initial period of the year 2025, from January to March, over 12 weeks.

Keywords: *ERP, Odoo, QuickStart, Black Box Testing, User Acceptance Testing*