

ABSTRAC

Kopi Cupumanik UMKM faces operational constraints stemming from a manual production data recording system that is centralized on the owner. This condition results in the risk of input errors, as well as the absence of structured historical production data for decision making. This study aims to design an Enterprise Resource Planning (ERP) system based on Odoo with a focus on the Manufacturing module to overcome these problems. The method used in designing this system is the Quickstart method which consists of three main stages: Kick-off Call, Analysis, and Configuration. At the analysis stage, it begins with a SWOT, IFE, EFE, and IE analysis, then a mapping of the coffee production business process is carried out from harvest to packaging, Fit/Gap analysis, and time study analysis to determine the actual production capacity. The result of this study is an ERP system design in the Odoo Manufacturing module that is integrated and adjusted to the Kopi Cupumanik workflow. This system is able to document all stages of production digitally through the Manufacturing Order, Bill of Materials, and Work Center features, as well as manage scrap products. Verification and validation of the system through black box testing and User Acceptance Test (UAT) which showed a very satisfactory level of user acceptance, indicating that the designed system has been in accordance with the functional and operational needs of the company.

Keywords: ERP, Odoo, UMKM, Manufacturing Module, Quickstart Method, black box testing, User Acceptance Testing (UAT), Coffee Business Process.