

## **ABSTRACT**

*This study aims to implement an Odoo-based Enterprise Resource Planning (ERP) system for the procurement and production processes at UMKM Dapurbeta using the Rapid Application Development (RAD) method. UMKM Dapurbeta faces challenges in its operations due to uncontrolled raw material purchases, leading to excessive stockpiling. The storage of these raw materials is also inconsistently recorded, resulting in frequent losses. Additionally, UMKM Dapurbeta fails to document the raw materials used during food production. The core issue lies in the inconsistent documentation of raw materials from the moment they are purchased from vendors until they are used in the production process, making it difficult for UMKM Dapurbeta to track the usage history and the remaining stock levels.*

*To address these issues, UMKM Dapurbeta requires a system that can provide solutions to their operational challenges, specifically through the use of an ERP system. An ERP system is designed to integrate data and information into a centralized system that supports business needs. Odoo was chosen as the ERP software due to its open-source nature and configurability to meet the needs of UMKM Dapurbeta based on a fit & gap analysis.*

*The implementation involves the purchase and production modules to support the procurement and production processes. The results of the implementation include data migration of vendor data, work centers, operations, stock locations, and purchase product categories, enabling the recording of raw materials from the time of purchase through their use in production. This documentation allows for better visibility of remaining stock and aids in forecasting raw material purchases, preventing overstocking. Additionally, the integration of the WhatsApp system with Odoo ensures that all purchase histories with vendors are also documented within the Odoo system.*

**Keywords—** *UMKM, ERP, Odoo, RAD, procurement, production*