

ABSTRACT

The development of information technology encourages companies to use integrated systems to support operational management. Pabrik Beras AY still manages inventory and financial activities manually, resulting in repetitive recording, time-consuming data recapitulation, and unintegrated information. This study aims to analyze the initial conditions, design an Enterprise Resource Planning (ERP) system using Odoo with the Inventory and Accounting modules, and evaluate the results of system testing.

This study uses a qualitative method with a case study approach through observation, interviews, and documentation. The system design includes requirements analysis, master data preparation, module configuration, integration, and testing using the Black Box Testing method.

The results show that the Odoo-based ERP design can support inventory recording, financial transactions, journal entries, Vendor Bills, sales, and financial reporting. Most tested functions operated according to the expected outputs. However, the determination of production costs and the Cost of Goods Sold (COGS) for Beras Slyph remains limited because the Manufacturing module has not been implemented and data on paddy usage has not been fully documented. Therefore, the ERP design can support inventory and financial management within the scope of the study, but it does not yet provide full automation of the production and COGS processes.

Keywords: Enterprise Resource Planning (ERP), Odoo, Inventory, Accounting, Inventory Management, Financial Reporting.