

ABSTRACT

In an increasingly competitive global market, the effectiveness of resource management has become a crucial aspect of achieving business success. PT Wisaka Jaya, a construction company based in Bener Meriah Regency, Aceh, frequently encounters issues related to efficiency and data accuracy in its purchasing and sales processes. These challenges create various difficulties in maintaining smooth operations and meeting the quality standards expected by stakeholders. To address these issues, this research aims to design and implement an Odoo-based Enterprise Resource Planning (ERP) system using the Rapid Application Development (RAD) method. The RAD method was chosen for its ability to accelerate application development cycles and its flexibility to adapt to changing user needs. The ERP system implementation encompasses several key modules: purchasing, sales, accounting, production, and inventory management. The integration process of these modules is designed to ensure that all necessary data and information are accessible in real time, thereby enhancing inter-departmental coordination and reducing potential errors. Testing is conducted using black box testing and user acceptance testing (UAT) methods to ensure that the developed system meets the end user's needs and expectations. The research outcome is expected to demonstrate that the implementation of the Odoo-based ERP system can significantly improve the company's operational efficiency.

Keywords -Enterprise Resource Planning (ERP), Odoo, Purchasing, Sales, Rapid Application Development (RAD).