

ABSTRACT

ERP SYSTEM DESIGN SMART SME IN WAREHOUSE MANAGEMENT PROCESS FOR MANAGEMENT OF STOCK ITEMS USING SERVICE ORIENTED ARCHITECTURE METHOD

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Currently, Small and Medium Enterprises or SMEs are a business activity that is in great demand in Indonesia. SMEs have a significant role in spurring economic growth in Indonesia. So many people choose SMEs as their business. However, many SMEs in Indonesia still carry out their business processes separately, especially in the warehousing system, so that business processes are run poorly, such as managing the inventory of goods in warehouses that are still done manually and separately, recording inventory of goods is still recorded manually, and the absence of a system that supports the process of managing stock in SME warehouses.

Based on these problems, the need for an Open Source ERP system design, which is a smart SME system based on a service model by implementing a warehouse management module, with the aim that SMEs can manage the stock of goods in the warehouse in a more structured way and also support real-time data management. The research method is Service Oriented Architecture (SOA). Researchers analyze the problems experienced by SMEs and do business process design and development of Odoo ERP system applications. Furthermore, the system will be tested by a tester using the User Acceptance Test as an evaluation to conclude whether this research can be a solution to the problems of SMEs, especially in managing inventory.

The results of this study are a warehouse management module in the Odoo application that has been adapted to the needs of SMEs in supporting the process of managing stock in the warehouse.

Keywords: ERP, Smart SME, Warehouse Management, stock items, SOA method