ABSTRACT

AUTOMATIC REPORTING SYSTEM DESIGN FOR ACCOUNTING PROCESS IN SMART SMEs USING OPEN ERP AND SERVICE ORIENTED ARCHITECTURE METHOD

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Small and medium businesses or SMEs are activities that are currently in high demand and are highly developed in Indonesia. The rapid development of SMEs in Indonesia, especially in the current technological era, will affect the increasing competitiveness among SMEs. One way to improve the quality and competitiveness of SMEs is by developing systems that can be used as standards to support the performance of everyday business processes. Some SMEs in Indonesia still do not have a system that can be used as a standard to support the performance of daily business processes, especially in recording transactions and preparing financial reports for SMEs. Recording transactions and making financial statements that are made manually and not integrated between the processes that are running will increase the calculation errors in the reports generated and used to control costs that have been obtained or incurred. This affects decision making in planning purchasing strategies, managing costs, and utilizing resources.

So the solution for recording financial transactions and making financial reports on SMEs is to design an ERP system based on Open Source using the Service Oriented Architecture methodology, namely Smart UKM by implementing the Automatic Reporting feature to create best practice on integrated systems, especially in recording transactions in the sales (purchase) process (purchase) so that financial statements can be made automatically and are real-time.

The results of this study are a Smart SME-based ERP system model design that implements accounting modules in Odoo applications and uses SOA methods to adjust the needs and problems experienced by SMEs in their financial management systems.

Keywords : Smart SMEs, Open Source ERP, Automatic Reporting, SOA Methodology