

ABSTRACT

SMART SME SERVICE MODEL DESIGN BASED ON ERP SYSTEM IN PURCHASE MANAGEMENT PROCESS USING SERVICE ORIENTED ARCHITECTURE (SOA) METHOD

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Small and Medium Enterprises (UKM) is a business activity that is growing rapidly in Indonesia. The rapid growth of SMEs is based on the increasing tendency of people to goods consume. This business activity has a high existence in influencing the pace of the economy in Indonesia. The rapid growth rate of SMEs that exist today is also accompanied by failures caused by several factors. One of the basic factors experienced by SMEs is the process of purchasing goods that are still manual and not yet known about the supply of goods to suppliers. This causes SMEs to get goods that are of less quality at prices that do not meet the needs of the company.

Then the solution to managing the existing purchasing system for SMEs is to design Odoo-based Smart SME service system models in the Purchase Management module to overcome problems in purchasing goods within SMEs. The design of this system is also made in an integrated manner so that it can provide data in realtime. Smart SME system design adds vendor selection features that are able to assist SMEs in purchasing activities and provide the best suppliers in material purchasing activities. The method in designing this ERP system uses the Service Oriented Architecture (SOA) method because this method is open and dynamic so that the presentation of information becomes realtime. The use of this method also aims to design business process models and services that are appropriate to the purchasing system problems experienced by SMEs. The results of this study are the ERP system (open source) in the form of a blueprint document in the Purchase Management module so that it can create standardization in the process of purchasing material goods for SMEs in Indonesia.

Keywords: SMEs, ERP, Odoo, Purchase Management, SOA.