DESIGN AND IMPLEMENTATION OF SERVICE ORIENTED ARCHITECTURE (SOA) BASED SOFTWARE USING WORKFLOW ON SUPPLIER RELATIONSHIP MANAGEMENT (SRM) FUNCTIONAL DOMAIN FOR ENTERPRISE RESOURCE PLANNING SYSTEM

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Abstract

Supplier Relationship Management (SRM) is a corporate business strategy that allows the company to develop relationships with its suppliers effectively using informations to automate, simplify, and hasten product procurement process. Based on information acquired from the supplier’s data, the company can make decisions on product procurement from suppliers catalogue to maximize its profit.

In this Final Project, a SRM program which consists of e-purchasing, supplier management, sourcing, operational procurement, and purchase analysis is developed. This program uses Service Oriented Architecture (SOA) with Model-View-Controller (MVC) system and Workflow for .NET.

The testing result shows that the program is able to execute product purchasing flow from the suppliers by auctions or by direct orders, collecting suppliers’ data with their goods data, and produce analysis to find out which product is the most profitable for the company. In conclusion, the program has successfully met the SRM standards needed in the Enterprise Resource Planning System, integrating with other domains of the ERP.

Keywords: SRM, SOA, Workflow.