DESIGN AND IMPLEMENTATION OF HOSPITAL ACCOUNTING INFORMATION SYSTEM WITH INTEGRATED DEVELOPMENT PARADIGM USING THE ENTERPRISE SERVICE BUS (ESB)

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Abstract

Accounting information system in a hospital, serves as the estuary of all transactions made on the hospital. All records of transactions conducted in hospitals handled by the accounting information system. Development of hospital information system as a whole is generally performed in stages with the development paradigm that is not integrated with each other information systems. Transactions are handled by information systems to other business processes, will be recorded again on accounting information systems. Recording is done over and over will increase the likelihood of errors when recording back on a transaction. That required a hospital information system built with an integrated development paradigm.

Approach to develop accounting information systems with integrated paradigm can be achieved by using a Service Oriented Architecture (SOA). To be able to use Service Oriented Architecture, there is a technology that has been developed to support the implementation of Service Oriented Architecture (SOA). The technology is Enterprise Service Bus (ESB). ESB acts as a bridge technology to transform the service that is sent or received by the accounting information system. So the accounting information system capable of supporting applications to be integrated with other business processes.

The results of this thesis is that accounting information systems can be integrated with information systems to other business processes in hospitals using enterprise services bus (ESB). Enterprise service buses
are used in the development of this thesis is WSO2. Component of the enterprise service bus that is used in this thesis is the endpoint and a proxy server. Component's function is to direct the service is sent or received by the accounting information system so as to achieve the desired goal.

Keywords: Accounting Information Systems, Enterprise Resources Bus (ESB), Hospitals