

Supply Chain Management System Application

Based on SOA

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A dissertation submitted in partial fulfilment of the requirements for the degree of Master of Science in Computer Science

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DECLARATIONS

This work has not previously been accepted in substance for any degree and is not being concurrently submitted in candidature for any degree.

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This dissertation is being submitted in partial fulfillment of the requirements for the degree of Master of Science in Computer Science.

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This dissertation is the result of my own independent work/investigation, except where otherwise stated. Other sources are acknowledged by explicit references to the bibliography. A bibliography is appended.

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ABSTRACT

Over last few years, Service Oriented Architecture (SOA) has gained a lot of attention, because it provides a new direction of software development, business agility and optimization of operating costs. Moreover, recent researches have demonstrated that SOA can address business network issues such as interoperability, scalability, heterogeneity, and decoupling of systems.

The concept of SOA is to emphasize loosely coupled systems that exchanged self-contained messages. SOA separates functions into services and these services can communicate with each other. More importantly, application developers are able to add one or more services without knowing the services' underlying implementations.

Therefore, this project has attempted to develop and implement a supply chain management application based on SOA in order to prove that SOA might be another new way in developing software in the future.

The various technologies that I used in this project are JSF, J2EE, SOAP, XML, WSDL, and Web Services. In addition, some future directions for improvements also described at the end.

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