Universiti Teknologi MARA

PROTOTYPE DEVELOPMENT OF WEB SERVICES BASED ON WEB SERVICE-ORIENTED ARCHITECTURES

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DECLARATION

I certify that thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

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APPROVAL

PROTOTYPE DEVELOPMENT OF WEB SERVICES BASED ON WEB SERVICE-ORIENTED ARCHITECTURES

BY

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This thesis project was prepared under the direction of supervision of thesis supervisor, Mr. Azlan Bin Ismail. It was submitted to the Faculty of Information Technology and Quantitative Science and was accepted as partial fulfillment of the requirements for degree on Bachelor of Science.

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ABSTRACT

Web service is the new technology that apply the techniques to reduce the time and cost of web application development. It uses the Service-oriented Architectures (SOA) as the basic architecture for web service development. Web service can be applied to many other technologies such as console application, mobile technology, window based application etc. This research focuses on the development of prototype of web services based on web service oriented architecture. It also involves the building the interaction between the elements of SOA architecture. This paper uses data from ILMU database provided by Perpustakaan Tun Abdul Razak (PTAR) and the dummy database. The scope focuses on the service to retrieve the reference information. The development of web service involves the several stages. The Java language is used as the application language and the interface. The development tool is NetBeans IDE 5.5. The input parameter will be produced by the user in term keyword text.

Keyword: Web service, Service-oriented Architectures (SOA), middleware, search engine, service-orientation

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