

FAULT MODEL PROPOSAL FOR SERVICE ORIENTED SYSTEM TESTING



Abdullah Yousaf

Enrollment No: 01-241162-030

Supervisor: Prof. Dr Tamim Ahmed Khan

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Abstract

Service-Oriented Architecture (SOA) is considered as a standard for enterprise development of software and distributed designing paradigm that provide architectural style to enable application to create using services as a key element. The system developed by using the concept of service-oriented architecture is known as SBS (SOA-based system) [1].The aim of this study is testing service-oriented system using a predetermined fault model and evaluate effectiveness of such an approach. We propose a fault model for application types that are based on the SOA system. Ingredients of fault models have been gathered through existing literature. We used two applications, namely, weather service and a book store web application in which web services are integrated, for the purpose of evaluation. We validated effectiveness of our fault model proposal-based test suite through practically testing these applications measuring resulting coverage analysis.

Dedication

*This all dedication to my beloved parents and sisters and teachers for their
support and love*

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