

Sahab Nath Yadav
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Implementation of SOA by developing web services.

ABSTRACT

Reusability, flexibility and integration are the three issues which specify the quality of a software system. These qualities are the essential back-bone of software industry. Starting from modular design researchers proposed new architectures and technologies i.e. Object Oriented Architecture, Component Architecture during the course of time. But they are unable to solve the today's complex issues like distributed software, application integration, varying platforms, varying protocols, internet etc. Service Oriented Architecture solves the above mentioned issues by focusing on the business process interactions, application interfaces and overcoming the data level incompatibility among the disparate IT systems, that participate in those processes, including varying formats, semantics and hierarchies.

In the thesis work AdmissionRequest and LoanRequest Web Services are developed. Web Services are one of the ways to implement SOA. The thesis concludes that adopting SOA approach by making Web Services helps in making the system more reusable, flexible, interoperable and integrateable with other legacy systems.