Abstract

Dynamic business environment drives enterprises to work more closely, flexibly and carve up resources with their business partners to provide comprehensive, efficient and customized web services. This demand a mechanism to integrate the service logics from diverse system by scrutinizing the dependency exist on the service logics. To ascertain the dependency between
the service logics, developers need to comprehend the whole service logics and must identify
correct way to integrate them. It puts developers in bottleneck. The framework proposed in this
paper discovers required service logics, ascertains the dependency between the service logics
and integrates them dynamically. It employs FSM to recognize the dependency relation subsists
on located logics. The system studies the logic flow through FSM and determines dependency
relation exist on business rules, functions and parameters. From the resolved dependency
relation, it decides proper way for integration. Integration adapter in the framework integrates
the service logics in run time through the revealed style. FSM is also exploited to measure the
quality parameters of the integrated service through the property evaluator. Thus this ascent to
integrate the service logics robotically without developer’s intercession at any stage.

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Index Terms

Computer Science       Information Systems

Key words

Service integration       B2B integration       B2B collaboration
Web service
Finite State Machine (FSM).