Abstract

Software reengineering is the concept of gracefully modernizing a legacy application. Many organizations are planning to modernize their legacy application through reengineering. However, many of these efforts are often less than successful because they concentrate on a narrow set of risk issues without fully considering a broader set of enterprise-wise system,
managerial and technical risk issues. Overall success of reengineering effort requires a decision driven risk assessment framework that examines system, managerial and technical domain of legacy application. We present a hierarchical system domain risk framework SysRisk to analyze system dimensions of legacy application. The fundamental premise of framework is to observe, extract and categories the contextual perspective models and risk clusters of system domain. This work contributes for a decision driven framework to identify and assess risk components of system domain. Proposed framework provides guidance on interpreting the results obtained from assessment to take decision about when evolution of a legacy system through reengineering is successful.

Reference


Index Terms

Computer Science
Software Engineering
Key words

SysRisk

Domain

Perspective