Abstract

To stay ahead in competition, software organizations have to deliver required functionality consistently guaranteed with high quality. The quality expectations of customers at purchase time from the software is the major reason of emergent attention of software organizations to implement quality management in software development. Nowadays, use of Component Based Software Development (CBSD) approach is considered success factor for business because of its underlying benefits like reusability, on-time delivery, high quality, and less cost. But success of CBSD depends upon the quality of components used. Many quality models have been proposed to provide high quality products, some of these are for general usage and others are for specific applications or domains. These specific purpose models are improved or modified forms of basic quality models especially ISO 9126. This paper presents key challenges or deterrents to the development of standard, complete and pervasive software quality models, solution to these challenges and their importance is also discussed.
Challenges to Development of Standard Software Quality Model

- Kalaimagal, Sivamuni and Srinivasan, Rengaramanujam 2009. The Need for Transforming the COTS Component Quality Evaluation Standard Mirage to Reality. ACM SIGSOFT SEN 34, 5 (Sep. 2009), 1-4
- Khosravi, Khashayar and Gueheneuc, Yann-Gael 2005. On issues with software quality models. 9th ECOOP workshop on quantitative approaches in Object Oriented software engineering, Scotland, 70-83
12-13, 2009) 31, 6, 150-160 DOI: 10. 1007/978-3-642-00405-6_19

Index Terms

Computer Science  Information Technology

Keywords

Quality Models  CBSD  Non-Functional Requirements  Challenges