Abstract

Many object oriented metrics have been explored and successfully applied by researchers to measure distinct aspects of software quality. Metrics are believed to be early indicators of qualitative parameters to give an idea as to how far a software engineering process has been well-implemented. However, using these metrics in isolation may not serve the purpose entirely. It is more productive to combine these metrics and map them into higher level quality attributes to gain insight into software design properties. This paper aims at analyzing the relative progression of selected versions of java open source software with respect to certain quality parameters which have been quantified and characterized by the QMOOD quality model. The versions can then be compared among themselves against these attributes to determine which design aspects have been improved relative to their predecessors and which still need to be taken care of.

References

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Implementation of an Object Oriented Model to Analyze Relative Progression of Source code Versions with Respect to Software Quality


Index Terms

Computer Science

Software Engineering
Keywords
Object oriented metrics  Apache Tomcat  Quality attributes  QMOOD  Software quality.