Abstract

Annotations play a significant role both in software development and software maintenance activities. The semantically rich annotations will be supporting the software developers to a very significant level. The current source code annotations which are provided by modern development environment such as Eclipse are having difficulty in managing the annotations. Thus, the motivation to improve usability, efficiency of development tools and to reduce development time and cost has been emerged. The main objective of this paper is to provide insights in defining semantically rich annotations to source code using Tags for
An Architecture based Approach for Reliability Estimation of a Source Code Navigation tool

Software Engineering Activities (TagSEA) tool and to improve navigation and management of annotations while estimating the reliability of the tool. Reliability is one of the illusive targets to achieve in the software development for the successful software projects. It is one of the most important parameter or attribute of software to be achieved for the software quality. There are different techniques and models used for estimating the reliability of the software. We are using an architecture-based approach for estimating the reliability.

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**Index Terms**

Computer Science
Software Engineering

**Key words**

Source code navigation
Reliability estimation
tagging
test resource allocation