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
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.

**Reference**

- Roberto Pietrantuono, Member, IEEE, Stefano Russo, Member, IEEE, and Kishor S. Trivedi, Fellow, IEEE “Software Reliability and Testing Time Allocation: An Architecture-Based Approach”, IEEE transactions on software engineering, vol. 36, no. 3, may/June 2010
- Vibhu Saujanya Sharma a,*; Kishor S. Trivedi Department of Computer Science and Engineering, Indian Institute of Technology Kanpur, Kanpur, UP 208016, Indiab Department of Electrical and Computer Engineering, Duke University, Durham, NC 27708, USA “Quantifying software performance, reliability and security: An architecture-based approach”
Cooperative Work, pp. 195-198, 2006

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