Abstract

To deliver reliable and quality software product, the finally implementing software should have as few defects as possible. The motive of reliability management in a software product is to plan early stage defect identification and their proper solution for assessing early stage reliability and to give suggestive strategy for controlling and preventing the defect before the software is delivered. In this paper a set of requirements under requirement specification are taken for
detecting the requirement defects through inspection technique, assigning severity and priority to these defects and best tried to mitigate these defects according to their priority through mitigation variables [1]. To achieve this goal there is a need of: (1) easy depiction of requirement information for defect detection (2) a proper classification of requirement defects (3) suitable mitigation variables for defect mitigation. Here, the requirement document of Result Information System from a premium University is taken for successfully implementation of Reliable Requirement specification (RRS) Framework [2]. This study is not only adhering to detect potential requirement defect and providing mitigation variables for defect removal but also assessing their degree of reliability through evaluating number of identified defects and their respective number of mitigation.

References


Index Terms

Computer Science
Software Engineering
Keywords
Reliable Requirement Specification  Inspection Technique  Requirement Defect
Severity And Priority
Defect Mitigation