Abstract

Software is becoming a key ingredient in most of the modern systems and devices that support important business processes in our modern society. It is an essential component of many embedded applications that control various sensitive applications such as air traffic control systems, rockets, automated banking systems (ATM), security systems (radar) and so many other applications. The failure of those systems can result into severe damage [7]. It obvious that software testing technologies are essential for software testers. Even though there are several software testing methodologies and techniques to support the quality of software but to find relevant parameters for their applicability conditions remains an open question. This paper attempts to shed light on decision criteria, by describing various software testing techniques and their distinctions. The finding shows that these methodologies and techniques do not have direct influence on the quality of software but the choices we make on selecting relevant methodology/or technique for the application.

References

Selection and Application of Software Testing Techniques to Specific Conditions of Software Projects

- Serena, &quot;An Introduction to Agile Software Development&quot;, June 2007
- uTest, White Paper, &quot;Agile software Testing-Ten Tips for understanding Agile Development&quot;, 2012
- L. Williams and A. Cockburn, &quot;Agile Software Development: It&amp;apos;s about Feedback and Change&quot;, IEEE Computer, June 2003, pp. 39-43
- Laurie Williams, &quot;Testing Overview and Black-Box Testing Techniques&quot;, 2006
- Amman and Offutt, &quot;Introduction to software testing&quot;, chapter 1, pp. 6-7
- Beck, K. Test-Driven Development by Example, Addison Wesley - Vaseem, 2003

Index Terms
- Computer Science
- Software Engineering
Keywords
Software testing  software quality and standards  agile methodologies  software development