

Software Testing Practices

Ganesh B. Regulwar
M.E. (Info-Tech) 1st Year
Sipna's College of Engg. & Tech.,
Amravati (Maharashtra)

Vijay S. Gulhane
Assistant Professor, CMPS & IT Dept.
Sipna's College of Engg. & Tech
Amravati (Maharashtra)

ABSTRACT

In the simplest terms, Software Testing is a process to ensure the accuracy, completeness and quality of any developed software. Rather than limiting this to a formally technical process used to investigate and measure quality of the developed computer software in terms of correctness, completeness and security, it is imperative to test the software components and the software as a whole for integrity, capability, reliability, efficiency, portability, maintainability, compatibility and usability of the software. This is particularly important in an operating environment where it is planned to be implemented, and testing will need to adhere to the technical requirements as described under ISO standard ISO 9126. Effective testing requires the presence of adequate and suitable test data. Where test results are specified, it is presumed that the inputs will be consistent from text execution to execution. In situations where automated testing methodologies are employed, a standardized test bed of data may be required to facilitate the automated assessment of "passed". The best approach is to conduct end to end testing. Testing methodology is applied in two major phases: *Functional Testing* and *Non-Functional Testing*. One of the purposes of automated testing is to ease regression testing. Once the system is stable, then automated testing can be started. Preferably, automated tests can be run overnight on software builds, rather than the live version. This will help give a clearer indication to the stability of the build the following morning. Hopefully leading to more time being available for the rest of the testing and development.

The full text of the article is not available in the cache. Kindly refer the IJCA digital library at www.ijcaonline.org for the complete article. In case, you face problems while downloading the full-text, please send a mail to editor at editor@ijcaonline.org