

Maximizing the value of testing

There are a lot of kinds of automated tests that can be performed in this application so as to maximize the value of testing. In this text I am going to describe some of important consideration about some technics.

Unit tests

This technique is usually done by the programmer. The goal of unit testing is to isolate each part of the program and show that the individual parts are correct. The benefit is the possibility to find problems early in the development cycle.

Performance tests

The performance test is useful to check how an application performs in terms of responsiveness and stability under a particular workload. We can also serve to investigate measure, validate or verify other quality attributes of the system, such as scalability, reliability and resource usage. This kind of test may be valuable for application that has a huge number of users accessing simultaneously.

Security test

With Security testing is used to find all possible loopholes and weaknesses of the system which might result into a loss of information at the hands of the employees or outsiders of the organization. The goal of security testing is to identify the threats in the system and measure its potential vulnerabilities. It also helps in detecting all possible security risks in the system and help developers in fixing these problems through coding. There are seven main types of security: Vulnerability Scanning, Security Scanning, Penetration testing, Risk Assessment, Security Auditing, Ethical hacking and Posture Assessment.

Using all these technics together in an automation test battery we can ensure the quality of the application and minimizing defects and errors that were made during the development phase.