

Article

Testing Services

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Auto and Manual Testing

Today, everything is technology driven and as users are inclined to hi-tech gadgets, that makes them more susceptible to defects, flaws, or errors in the application code. Considering all these things testing becomes one of the key activities for verifying and validating software application or program.

Software testing is not just limited to bug finder but more importantly, it is concentrated to find defects in the outcome of the final product. The purpose of testing can vary according to requirements and complexities of the project but in general, it revolves around quality assurance, verification and validation, or reliability estimation.

Testing can involve in some or all of the following factors:

- Business purpose
- Functional design needs
- Technical design requirements
- Programmer code
- Corporate standards
- Professional or trade association best practices
- Systems administration standards and restrictions
- Regulatory requirements
- Hardware configuration
- Cultural issues and language differences

Manual and Automated testing are the two imperative part of software testing. Manual is actually an oldest way of testing and interesting around 80% of all testing carried out today is manual.

Manual testing is actually an initial process of every software testing activities and a tester has to perform manual test operations without any sort of automated assistance. This make manual testing a cumbersome activity, as it requires several stages such as: Unit Testing, Integration Testing, System Testing and User Acceptance Testing and such process needs certain set of qualities; patient, observant, speculative, creative and innovative skills.

Manual testing if done properly can figure out and record any software bugs or discrepancies related to the functionality of the product. Manual testing can be replaced by test automation. In fact, automation is usual done when same testing is required repeatedly.

Manual Test is time consuming and takes lot of time and cost than automated test to write and run. Such process requires lot of skills and test the quality of tester as it provides limited visibility. Compare to manual test process automated tests may require less complex setup and teardown.

Automated testing can actually enforce and driven clean design decisions. It provides a safety net refactoring and such tests do not create clutter in code/console/logs.