

AUTOMATED SOFTWARE TESTING

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What is an Automated Software Testing?

Software Test automation makes use of specialized tools to control the execution of tests and compares the actual results against the expected result. Usually regression tests, which are repetitive actions, are automated.

Testing Tools not only help us to perform regression tests but also helps us to automate data set up generation, product installation, GUI interaction, defect logging, etc.

Criteria for Tool Selection:

For automating any application, the following parameters should be considered.

- Data driven capabilities
- Debugging and logging capabilities
- Platform independence
- Extensibility & Customizability
- E-mail Notifications
- Version control friendly
- Support unattended test runs

Types of Frameworks:

Typically, there are 4 test automation frameworks that are adopted while automating the applications.

- Data Driven Automation Framework
- Keyword Driven Automation Framework
- Modular Automation Framework
- Hybrid Automation Framework

Popular Tools that are used for Functional automation:

Product	Vendor	URL
Quick Test Professional	HP	www.hp.com/go/qtp
Rational Robot	IBM	http://www-03.ibm.com/software/products/us/en/robot/
Coded UI	Microsoft	http://msdn.microsoft.com/en-us/library/dd286726.aspx
Selenium	Open Source	http://docs.seleniumhq.org/
Auto IT	Open Source	http://www.autoitscript.com/site/

Popular Tools that are used for Non-Functional automation:

Product	Vendor	URL
Load Runner	HP	www.hp.com/go/LoadRunner
Jmeter	Apache	jmeter.apache.org/
Burp Suite	PortSwigger	http://portswigger.net/burp/
Acunetix	Acunetix	http://www.acunetix.com/