



Testing Automation Tools for Software Testing

The increased demand for automation is trending in our software testing industry, as well. If you check out any software or [application testing](#) communities (i.e., uTest, Quora, etc.), you will find software testers urging for various tools that can be helpful in their day to day testing activities, whether it is for desktop testing, web testing, browser testing, regression testing, web services and API testing, and many more.



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1. Selenium

Selenium is a testing framework to perform web application testing across various browsers and platforms like Windows, Mac, and Linux. Selenium helps the testers to write tests in various programming languages like Java, PHP, C#, Python, Groovy, Ruby, and Perl. It offers record and playback features to write tests without learning Selenium IDE.

Selenium proudly supports some of the largest, yet well-known browser vendors who make sure they have Selenium as a native part of their browser. Selenium is undoubtedly the base for most of the other software testing tools in general.

2. TestingWhiz

TestingWhiz is a test automation tool with the code-less scripting by Cygnet Infotech, a CMMi Level 3 IT solutions provider. TestingWhiz tool's Enterprise edition offers a complete package of various automated testing solutions like web testing, software testing, database testing, API testing, mobile app testing, regression test suite maintenance, optimization, and automation, and cross-browser testing.

TestingWhiz offers various important features like:

- Keyword-driven, data-driven testing, and distributed testing
- Browser Extension Testing
- Object Eye Internal Recorder
- SMTP Integration
- Integration with bug tracking tools like Jira, Mantis, TFS and FogBugz
- Integration with test management tools like HP Quality Center, Zephyr, TestRail, and Microsoft VSTS
- Centralized Object Repository
- Version Control System Integration
- Customized Recording Rule

3. HPE Unified Functional Testing (HP – UFT formerly QTP)

HP QuickTest Professional was renamed to HPE Unified Functional Testing. HPE UFT offers testing automation for functional and regression testing for software applications.

Visual Basic Scripting Edition scripting language is used by this tool to register the test processes and operates the various objects and controls in testing the applications.

QTP offers various features like:

- Integration with Mercury Business Process Testing and Mercury Quality Center
- Unique Smart Object Recognition
- Error handling mechanism
- Creation of parameters for objects, checkpoints, and data-driven tables
- Automated documentation

4. TestComplete

TestComplete is a functional testing platform that offers various solutions to automate testing for desktop, web, and mobile applications by SmartBear Software.

TestComplete offers the following features:

- GUI testing
- Scripting Language Support – JavaScript, Python, VBScript, JScript, DelphiScript, C++Script & C#Script
- Test visualizer
- Scripted testing
- Test recording and playback

5. Ranorex

Ranorex Studio offers various [testing automation tools](#) that cover testing all desktop, web, and mobile applications.

Ranorex offers the following features:

- GUI recognition
- Reusable test codes
- Bug detection
- Integration with various tools
- Record and playback