

# QA Testing



QA test applications under development through a number of tests:

- **Functional Testing** is a broad category of testing. It includes a variety of testing methods such as "Does input and navigation control work as expected?", "Can the application do something useful as expected?", "What happens if we enter boundary/negative parameters?", "What happens when an error condition occurs?". For regression testing, tests may be partially or fully automated (WinRunner, Silk, HTTP Unit, Perl or Shell scripting).
- **Usability Testing.** In this phases of system testing our engineers test how easy the developed solutions allows its users navigate, perform data input and access as well as checking consistency of workflows throughout an application. In this phase we also test that the application under testing is user friendly, easy to navigate, has no misleading functionalities or messages.
- **Stress tests** check how developed application behaves under limited resource conditions. The goal is to push the upper functional limits of a program to ensure that it can function correctly and handle error conditions gracefully.
- **Coding Standards Review** is typically based on development framework or corporate standards of our customers.

The following non-functional tests may be performed based on agreements with the client:

- **Performance, Load and Stress testing**
- **Compatibility and SCALABILITY Testing** - Verification of application behavior across different hardware and software configurations (operating systems, browsers, network connections) that have been defined in the software requirements document.
- **Database Performance Analysis** - Monitoring of database activity, checking all queries and transactions between a Web application and database server; identifying where and why transactions may be performing slowly.

Our strong belief is to form a QA team in the initial stage of the project development; this undoubtedly helps reduce the risks of fixing global bugs in later stages. The QA engineers are involved in the development process right off the mark: they are provided with the available documentation, acquainted with the business processes that are to be implemented in the project and technical specifications requested by the client. On the basis of the provided resources our engineers develop a testing plan that meets all the mentioned requirements. It defines the scope of testing of the product and documents the process of the quality assurance.

- **Strategic execution of testing**

The application of up-to-date techniques and approaches helps obtain true-positive results from the testing process and quality assurance. The QA department performs the following

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types of testing: functional testing, security and access control testing, installation testing, system testing, user interface testing, cross-browsers testing, integration testing, regression testing and performance testing. Defects registration and tracking. We use dedicated systems to record the defects identified in software applications. They allow tracking the life cycle of a bug from the moment of its detection up to the moment of its fixing in the product. All the members of the team involved in the project development process have access to these systems with the appropriate rights assigned to them. The client of the project is a participant and can follow the testing process as a whole and have the full awareness of quality changes occurring in the developed application.

- **Testing process automation:**

At the stage of regression testing, the automated testing tools are used in order to save time and resources and to raise the quality of testing. The automated testing tools examine the software on the basis of the scripts developed by the QA engineers and generate an informative report on the received results for further analysis.

- **Testing process documentation**

The results of version testing of the developed system are provided to the client in the form of accompanying documentation. Check lists are created for every new version. Difficult test scripts are used to give a step-by-step description of business process testing. Full report on the performed works and results of testing can be developed at the customer's request on the development process completion.

