



Software testing

In the software testing service, an expert from Qentinel participates as a tester in the customer's software project.

The most important objectives of the service are:

- design and preparation of test cases
- building a test environment
- execution of test cases and reporting of results and defects
- producing documented information on the progress and coverage of testing

Service description

Software testing service consists of professional and cost-effective design and execution of testing and result reporting. The tester works as a part of the customer's team, and the work is divided into the following phases and tasks:

Start-up and data acquisition – Service objectives (such as the responsibilities and tasks of the tester) are worked out with the customer. The tester becomes acquainted with initial test material and relevant interest groups.

Test preparation – The tester designs test cases for the test targets that he or she is responsible for, and builds all necessary test material. Preparatory tasks also include the planning and building of a test environment.

The design of, and preparation for, regression testing are part of an iterative development process, and include the re-testing of defect-fixed software.

The tester can also participate in the specification and implementation of processes that support the test program, such as the preparation of build tests and build practices or configuration of the fault management work-flow in a test management tool.

Test execution – This phase involves executing manual and automatic tests, recording test results and reporting possible defects to the rest of the project team. This is repeated according to development iterations, during which new tests are performed, fixes are re-tested, and regression tests are performed.

Conclusion and knowledge transfer – When the test project is concluded, the tester archives essential test material for easy re-use. At the same time, knowledge transfer to production and maintenance can be carried out.



LET
THERE
BE
QUALITY

Our way of working

To deliver services as best we can, we aim to set clear objectives, provide systematic follow-ups, and be proactive.

Our customer-specific service manager is the contact person for service delivery, and is responsible for contract issues, customer satisfaction, progress, and reporting.



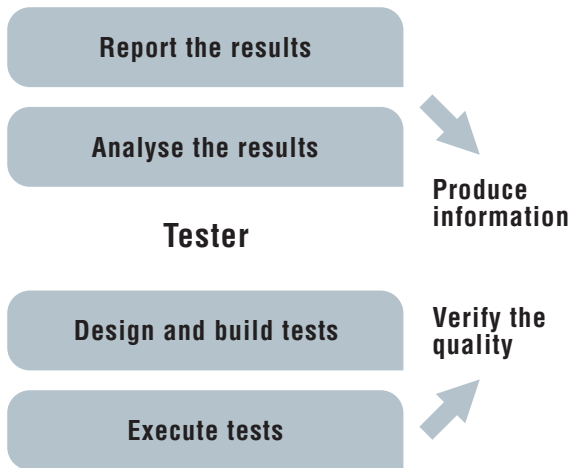
Service practices

Evaluation of testability – The tester has a special role during the review of requirements and technical plans to focus on evaluating how things can be measured and how well the technical implementation supports the testing and monitoring of the system under test.

Test planning techniques – A professional tester knows how to derive efficient test cases from requirements and functional plans. In addition to standard techniques, it is also important to know design methods for different test types, such as performance, data security, and usability testing. The tester may also apply exploratory testing, where the test cases do not necessarily need to be precisely specified in advance.

Recording results and defects – A prerequisite to monitoring the testing status and to efficient fault fixing is an accurate recording of test execution activities and observations. Software developers can recreate any defect found by the tester with the help of a good defect report, which will also help developers in the defect correction phase.

Prioritization – Prioritization is important in the planning and execution of testing; sufficient time and resources must be reserved for the testing of important and high-risk objects.



CENTRAL TASKS OF THE SOFTWARE TESTER

Project manager

End users

Tester

Test manager

Domain experts

Developers

CENTRAL INTEREST GROUPS OF THE SOFTWARE TESTER

Qentinel

Qentinel is a leading Finnish provider of software quality assurance services. We help our customers in software quality assurance and testing, ranging from test planning and management to implementation and automation of testing. Our customers are organizations for whom the quality of their software and IT systems is an important success factor.

For further information on our services, please visit our web site.

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