

Description

The teams can determine the alignment and definition of the weighting in the QA octant. A higher weighting of a quality issue implies the need for suitable tests. Definitions of the quality criteria and examples of associated test types can be found in the boxes.

Functionality

This characteristic represents the degree to which a product or system provides functions that meet stated and implied needs when used under specified conditions.

- blackbox testing
- integration testing
- suitability testing

Efficiency

This characteristic represents the performance relative to the amount of resources used under stated conditions.

- performance testing
- load testing
- scalability testing

Compatibility

Degree to which a system or component can exchange information with other systems or components, and/or perform its required functions, while sharing the same hardware or software environment.

- interoperability testing
- co-existence testing

Usability

Degree to which a product or system can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use.

- usability check
- A/B testing
- friendly user testing
- learnability testing

Reliability

Degree to which a system, product or component performs specified functions under specified conditions for a specified period of time.

- monkey testing
- failover testing
- recoverability testing

Security

Degree to which a product or system protects information and data so that persons or other products or systems have the degree of data access appropriate to their types and levels of authorization.

- security testing
- penetration testing
- fuzz testing

Maintainability

This characteristic represents the degree of effectiveness and efficiency with which a product or system can be modified to improve it, correct it or adapt it to changes in environment, and in requirements.

- static code analysis
- maintainability testing
- white box testing

Portability

Degree of effectiveness and efficiency with which a system, product or component can be transferred from one hardware, software or other operational or usage environment to another.

- installability testing
- operational testing
- configuration testing

QA OCTANT – Prioritize your quality criteria

