Usability requirements

→ Q1: It should be easy for novice users to do tasks Q and R.
→ Q2: Novice users should perform tasks Q and R in a short time.
→ Q3: Experienced users complete tasks Q, R, and S quicker than novice users.
→ Q4: Recording breakfast shall be easy using keyboard.

→ Problem counts
  • Q1: At most 1 of 20 novices shall encounter critical problems during tasks Q and R.

→ Task time

→ Keystroke counts
  • Q4: Recording breakfast shall be possible within 5 keystrokes per guest.
Efficiency

- **Efficiency** - the capability of the software to provide the required performance relative to the amount of resources used, under stated conditions

Which statement is objectively defined?

1: Product shall be able to process a lot of payment transactions in a short time even during peak load

2: Product shall be able to process 100 payment transactions per second in peak load.

Efficiency

- **Efficiency** - the capability of the software to provide the required performance relative to the amount of resources used, under stated conditions

Which statement is objectively defined?

1: Scrolling one page up or down in a 200 page document shall take at most 1s. Searching for a specific keyword shall take at most 5s.

2: Scrolling one page up or down in a large document shall take an efficient time. Searching for a specific keyword shall take a reasonable time.
Efficiency

- **Efficiency** - the capability of the software to provide the required performance relative to the amount of resources used, under stated conditions

Which statement is objectively defined?

1: A simple report shall take a short waiting time. None shall take the long waiting time

2: None shall take longer than the simple report preparation in the majority of the cases.

Maintainability

→ Maintenance performance
  - Q1: Supplier’s hotline shall analyse almost all reports in a short period
  - Q2: When repairing a defect, a number of related non-repaired defects should be very low

→ Development process
  - Q3: Every program module must be assessed for maintainability according to organisation’s standards OST-1.12.x. Majority of the modules have to be “High maintainable” (as defined in the standard) and none “poor” (as defined in the standard)
  - Q4: Development must use regression test allowing full re-testing in a short period

→ Program complexity
  - Q5: No method in any object may contain a lot of code lines
Maintainability

→ Maintenance performance
   ✐ Q1: Supplier’s hotline shall analyse almost all reports in a short period
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   ✐ Q3: Every program module must be assessed for maintainability according to organisation’s standards OST-1.12.x. Majority of the modules have to be “High maintainable” (as defined in the standard) and none “poor” (as defined in the standard)
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→ Program complexity
   ✐ Q5: No method in any object may contain a lot of code lines