

Software Engineering COMP433

Tutorial -1- Good attributes of Software

1. Which of the following systems, you would describe as dependable or acceptable. Justify your Answer.

- a) A Medical system that has a failure rate of %2 in a year.
:?
- b) A bank security system that has a 99% reliability.
:?
- c) A university registration system that requires 5 days of student training before students are able to use it.
:?
- d) A Palestinian banking system that serves a national bank and allows 1000 concurrent users to access the system
:?
- e) A train station control system that needs 15 days of user training before administrators can use it?
- f) A national poll system (إنتخابات) that a reliability of 93%?

2. If you were a manager responsible to buy a system for your company to manage university student registration, and were offered the choice of two systems. The first system, A, is only \$100k to buy but requires \$1k for an annual system support cost. It requires 10 days training and comes with a new version every year. The second system is only \$40k to buy, but requires \$3k in annual system support cost. It requires 3 days user training and is updated with a new version every 2 year. In your opinion, which of the two systems has:

- higher maintainability
- higher dependability
- higher usability

Write these in a comparison table. Justify your answer for each of the above properties.