**Exercise: Software quality**

Background:

* [Software Quality Models (1-1.4.3)](http://www.bth.se/com/besq.nsf/%28WebFiles%29/CF1C3230DB425EDCC125706900317C44/%24FILE/chapter_1.pdf)
* [ISO/IEC 25010 : Software Product Quality](http://iso25000.com/index.php/en/iso-25000-standards/iso-25010?limit=3&limitstart=0)
* [Slides QualityFactors.pdf](http://pele-easj.dk/2017e-swd/materiale/Qualitifactors.pdf)

This exercise must be done in groups, since it requires quite a lot of discussions.

Each group are responsible for writing down your answers in a way, so you can present your answers to the rest of the class.

***Software quality factors***

***Ranking***

Try to rank the software quality factors (McCall and ISO 25010) from most important to least important.

Rankings: 1 = most important, 2 = second most important, etc.

Try to do the ranking of software quality factors with respect to different types of software-based systems

1. Software to control advanced equipment in a hospital.
2. A web shop like amazon.com
3. A banking system used by the customers of the bank (home banking)
4. The Game software in a mobile phone

Put your answers in a table like this. Each cell in the table should contain a number (the ranking). The same number (ranking) can only be used once in each column.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **McCall** | hospital equipment | web shop | home banking | mobile phone |
| Correctness |  |  |  |  |
| Reliability |  |  |  |  |
| Efficiency |  |  |  |  |
| Integrity |  |  |  |  |
| Usability |  |  |  |  |
| Maintainability |  |  |  |  |
| Testability |  |  |  |  |
| Flexibility |  |  |  |  |
| Portability |  |  |  |  |
| Reusability |  |  |  |  |
| Interoperability |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ISO25010** | hospital equipment | web shop | home banking | mobile phone |
| Functional Suitability |  |  |  |  |
| Performance efficiency |  |  |  |  |
| Compatibility |  |  |  |  |
| Usability |  |  |  |  |
| Reliability |  |  |  |  |
| Security |  |  |  |  |
| Maintainability |  |  |  |  |
| Portability |  |  |  |  |