 <div>Universiti Malaysia PAHANG</div> <div>Engineering • Technology • Creativity</div>	MATAPELAJARAN: SOFTWARE QUALITY ASSURANCE			MARKAH: /
	TOPIK: Quality Factors		KOD:BCS 3263	
	PENILAIAN: LAB	BIL: 2	MASA: 1 jam	

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Work in group, discussed the reason why the factor been chosen.

Answer all the questions:

Objectives: to determine the various quality factors.

The software requirement document for the tender for development of "Super-lab", a software system for managing a hospital laboratory, consists of chapters according to the required quality factors as follows: correctness, reliability, efficiency, integrity, usability, maintainability, flexibility, testability, portability, reusability and interoperability. In the following table you will find sections taken from the mentioned requirements document. For each section, fill in the name of the factor that best fits the requirement (choose only one factor per requirements section).

No	Section taken from the software requirements document	Requirement factor
1	The probability that the "Super-lab" software system will be found in a state of failure during peak hours (9 am to 4 pm) is required to be below 0.5%.	reability
2	The "Super-lab" software system will enable direct transfer of laboratory results to those files of hospitalized patients managed by the "MD-File" software package.	Interoperability
3	The "Super-lab" software system will include a module that prepares a detailed report of the patient's laboratory test results during his or her current hospitalization. (This report will serve as an appendix to the family physician's file.) . The time required to obtain this printed report will be less than 60 seconds; the level of accuracy and completeness will be at least 99%.	correctness
4	The "Super-lab" software to be developed for hospital laboratory use may be <u>adapted</u> later for <u>private laboratory use</u> .	Flexibility

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5	The training of a laboratory technician, requiring no more than 3 days, will enable the technician to reach <u>level C</u> of "Super-lab" software usage. This means that he or she will be able to manage reception of 20 patients per hour.	Usability
6	The "Super-lab" software system will record a detailed users' log. In addition, the system will report attempts by <u>unauthorized</u> persons to obtain medical information from the laboratory test results database. The report will include the following information: network identification of the applying terminal, system code of the employee who requested that information, day and time of attempt, and type of attempt.	Integrity
7	The "Super-lab" subsystem that deals with billing patients for their tests may <u>eventually be used as</u> a subsystem the "Physiotherapy Center" software package.	Reusability
8	The "Super-lab" software system will process all the monthly reports for the hospital departments' management, the hospital management and the hospital controller according to Appendix D of the development contract.	correctness
9	The software system should be able to serve 12 workstations and 8 automatic testing machines with a single model AS20 server 25 communication lines. This hardware system should conform to all availability requirements as listed in Appendix C	Efficiency
10	The "Super-lab" software package developed for the Linux operating system should be <u>compatible for application</u> in a <u>Windows NT environment</u> .	Portability