

Requirements engineering 1

Name:

1. What is requirements engineering?

All of the activities involved in discovering, documenting and maintaining a set of requirements for a computer-based system

2. What problems can arise if requirements are wrong?

System delivered late and cost more than expected
Customer and end-users dissatisfied with the system
System may be unreliable
System may be expensive to maintain and evolve

3. Why is requirements engineering difficult?

Businesses operate in a rapidly changing environment so that requirements are changing
Multiple stakeholders are involved
People do not know what they want from a system
Political and organisational factors influence system requirements

4. What are the inputs and outputs of the RE process?

Inputs are existing systems information, stakeholder needs, organisational standards, regulations, domain information.

Outputs are agreed requirements, a system specification and system models

5. What factors influence requirements change?

Technology changes
Organisational changes
Market changes
Economic changes
Political and legal changes

6. List 6 stakeholder perspectives that might be used to derive requirements?

Social perspective
Technical perspective
Certification perspective
Customer perspective
Management perspective
User perspective

7. What are structured analysis methods? Give an example

Methods of developing detailed models of the problem or the system to be developed in some well-defined notation.

An example of such a method is object-oriented analysis where the system is represented as a set of interacting objects. System interactions are depicted as use cases.

8. What new types of requirement are posed by e-commerce systems?

Aesthetic requirements – how the system looks?
Marketing requirements – how the system reinforces the brand and marketing strategy of the company.
Multicultural requirements – how the system should take cultural differences into account.