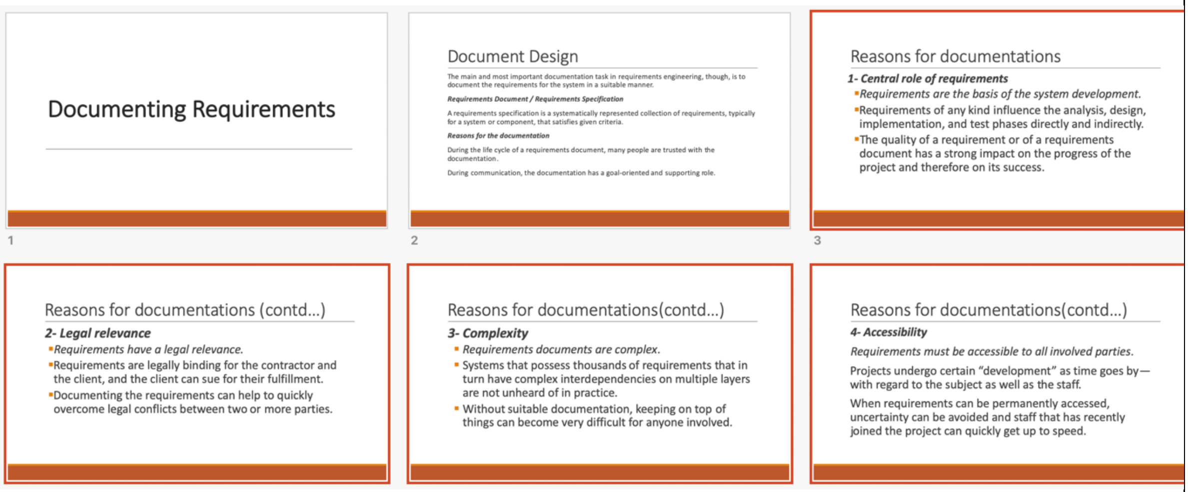
Solved Past Paper SRE Fall 2017 Finals

Q1: What are the major reasons for requirements documentation? Discuss in detail the quality criteria of requirements documents.

Major Reasons for Requirements Documentation

Lecture 4: Slide 3 – 6.



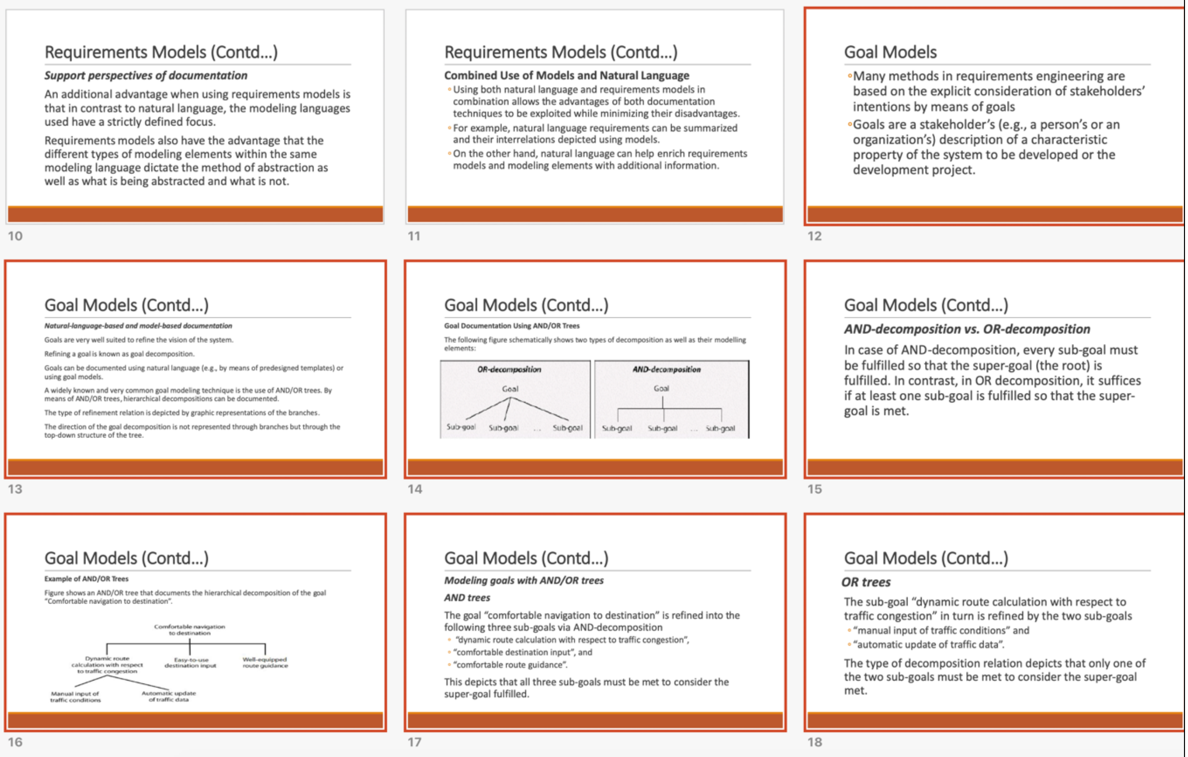
Quality criteria of requirements documents

Lecture 4: Slide 40 - 44

Q2: Explain in detail Goal Model approach of requirements specifications. Differentiate between use case diagram and use case specifications.

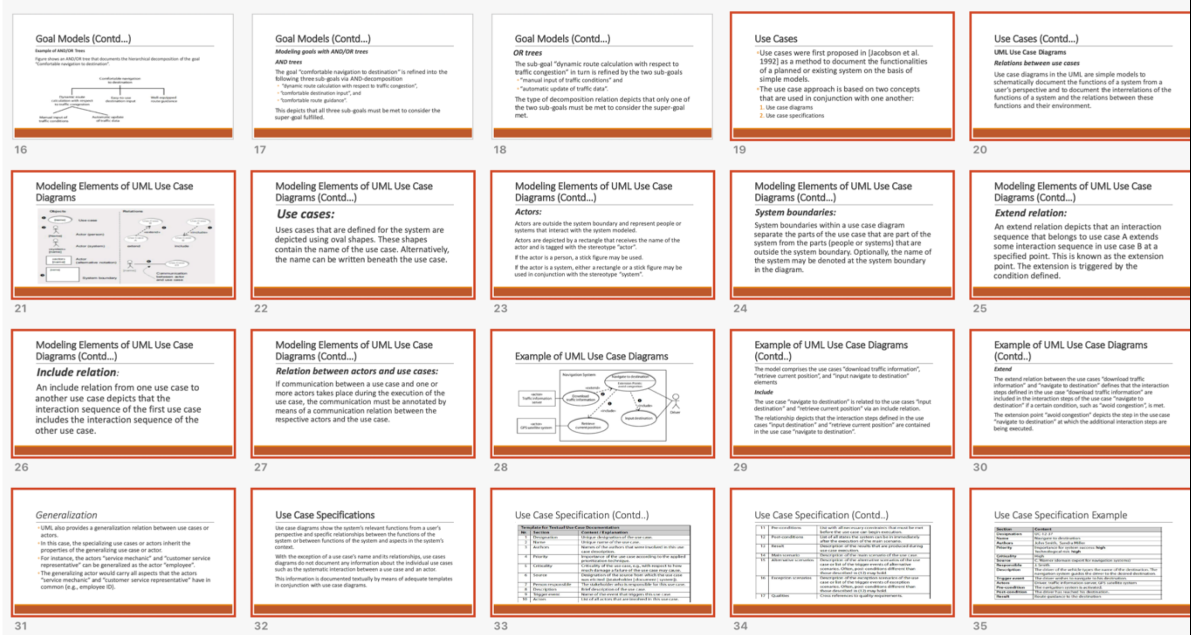
Goal Model approach of requirements specifications

Lecture 5: Slide 12 - 18



Differentiate between Use case diagram and use case specifications.

Lecture 5: Slide 19 – 35 (Sirf read kr k summary bna lain. Very easy topics)

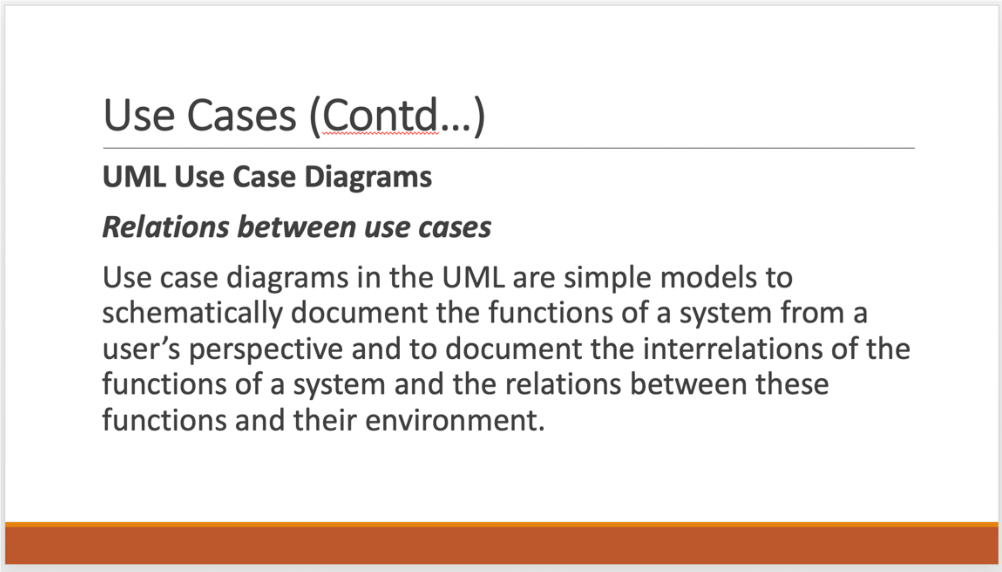


Q3: What is use cases and why they are important for requirements documentation? Draw a detailed registration system of Abasyn University, Islamabad.

Use cases and why they are important for requirements documentation

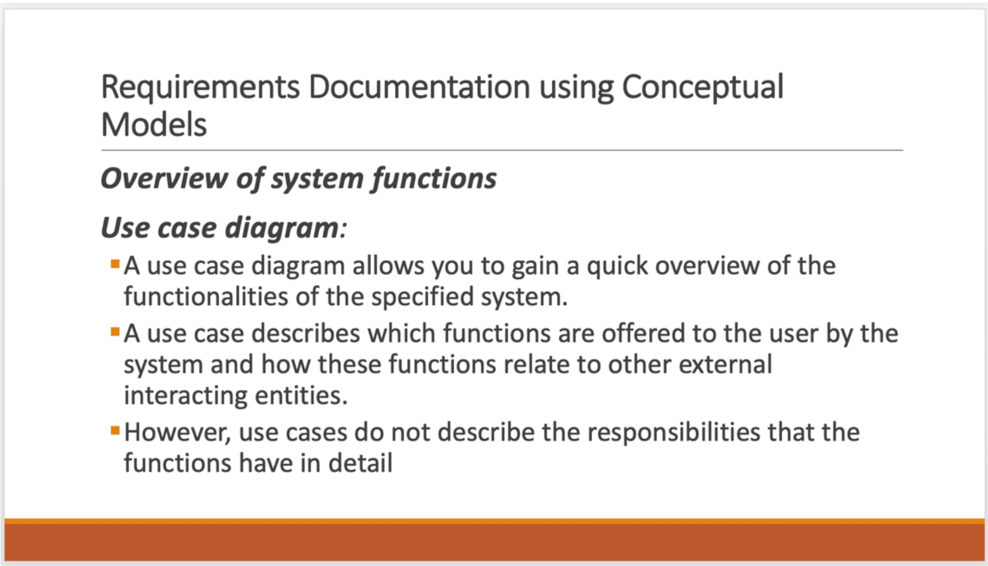
What is Use Case

Lecture 6: Slide 20



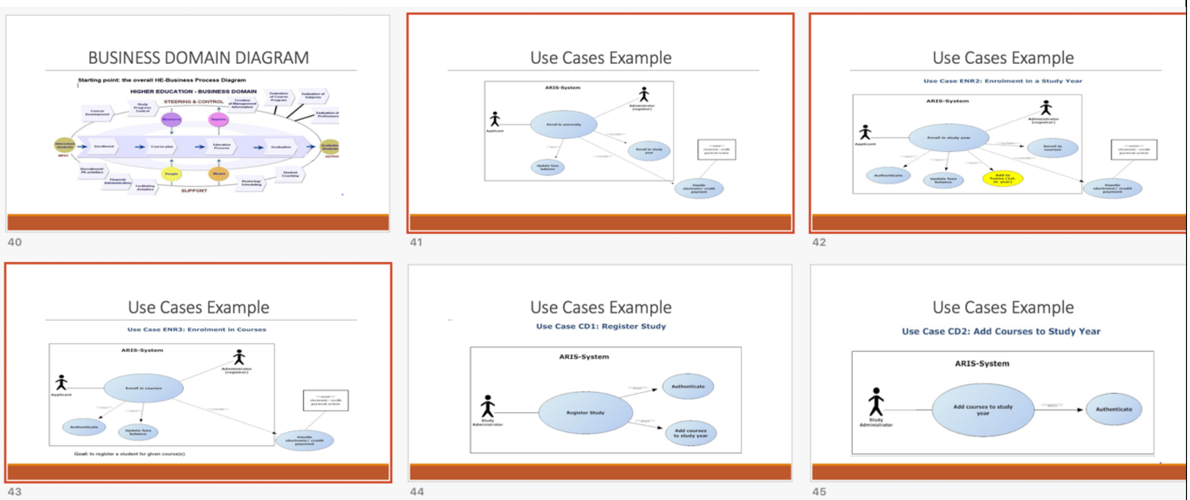
Use Case importance in requirements documentation

Lecture 4: Slide 12



Detailed registration system for Abasyn University

Lecture 6: Slide 41 – 43



Q4: What are major goals of requirements validation? Discuss in detail implications of violations of documents engineering.

Major goals of requirements validation

Lecture 7: Slide 7

Quality Aspects of Requirements (Contd..)

- In correspondence with the overall goals of the requirements engineering process, the validation is carried out with the following goals:
  1. ***Content:*** Have all relevant requirements been elicited and documented with the appropriate level of detail?
  2. ***Documentation:*** Are all requirements documented with respect to the predetermined guidelines for documentation and specification?
  3. ***Agreement:*** Do all stakeholders concur with the documented requirements and have all known conflicts been resolved?

Implications of violations of documents engineering

Lecture 7: Slide 19

Implications of the violation of documentation guidelines

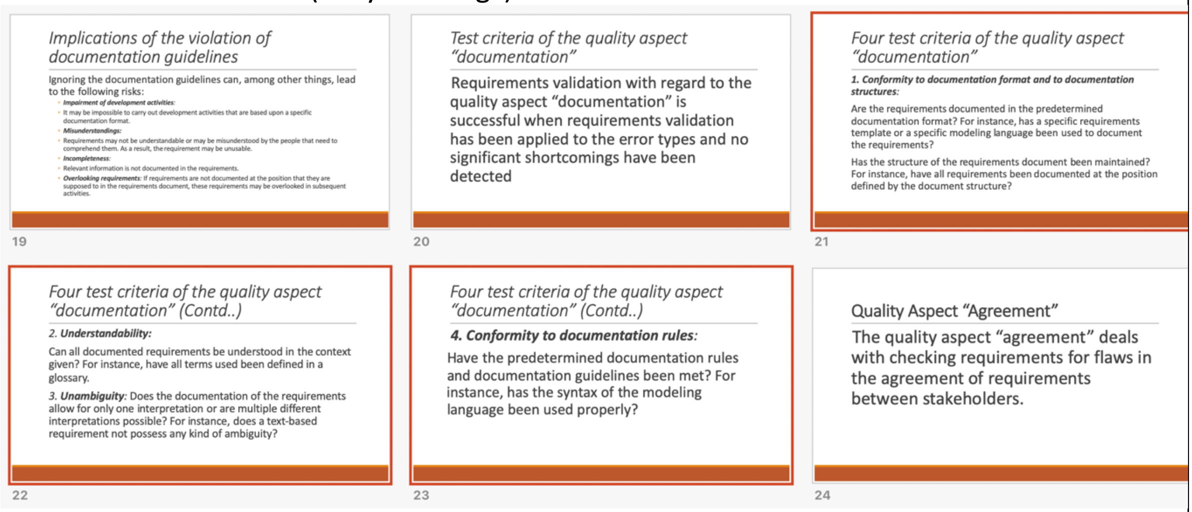
Ignoring the documentation guidelines can, among other things, lead to the following risks:

- ***Impairment of development activities:***
- It may be impossible to carry out development activities that are based upon a specific documentation format.
- ***Misunderstandings:***
- Requirements may not be understandable or may be misunderstood by the people that need to comprehend them. As a result, the requirement may be unusable.
- ***Incompleteness:***
- Relevant information is not documented in the requirements.
- ***Overlooking requirements:*** If requirements are not documented at the position that they are supposed to in the requirements document, these requirements may be overlooked in subsequent activities.

Q5: What are the four test criteria of quality aspects of requirements documentation? Discuss six principles of requirements validation and how it increases the quality in requirement documents?

Four test criteria of quality aspects of requirements documentation

Lecture 7: Slide 21 – 23 (Only headings)



Six principles of requirements validation

Lecture 7: Slide 27