Software Requirements Engineering (SE2001)



Dr. Syed Muazzam Ali Shah

HEC Approved Ph.D. Supervisor

(Assistant Professor)

Department of Software Engineering
NUCES-FAST Karachi

Contact#: (021) 111-128-128 Ext. 130

Website: sites.google.com/view/muazzam-kazmi/home

Official page: https://khi.nu.edu.pk/personnel/dr-syed-muazzam-ali-shah-2/Google Scholar: https://scholar.google.com.tw/citations?hl=en&user=OvcfR-IAAAAJ

Requirements Negotiation -2 1

- Disagreements about requirements are inevitable when a system has many stakeholders.
- Conflicts are not 'failures' but reflect different stakeholder needs and priorities.
- Requirements negotiation is the process of discussing requirements conflicts and reaching a compromise that all stakeholders can agree to.

Requirements Negotiation -3 2

- ❖ In planning a requirements engineering process, it is important to leave enough time for negotiation.
- Finding an acceptable compromise can be timeconsuming.

Requirements Negotiation - 3

- ❖ The final requirements will always be a compromise which is governed by:
 - > The needs of the organization in general,
 - > The specific requirements of different stakeholders,
 - Design and implementation constraints,
 - And the budget and schedule for the system development

- Requirements discussion
- Requirements prioritization
- Requirements agreement

❖ Requirements discussion:

Requirements which have been highlighted as problematic are discussed and the stakeholders

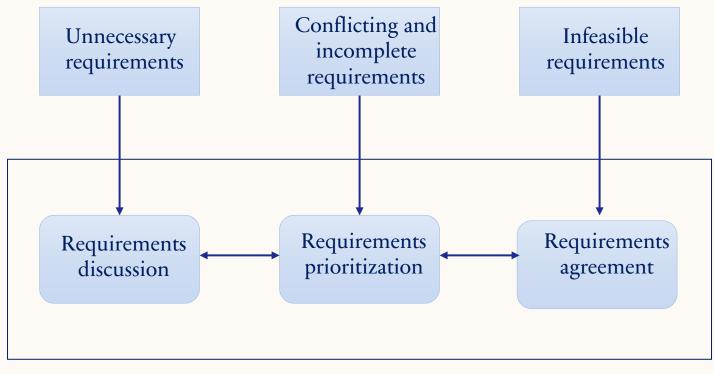
involved present their views about the requirements.

❖ Requirements Prioritization:

Disputed requirements are prioritized to identify critical requirements and to help the decision making process.

❖ Requirements Agreement:

- Solutions to the requirements problems are identified and a compromised set of requirements are reached.
- > Generally, this will involve making changes to some of the requirement.



Requirements Negotiation

Resolution of requirements₁₀ conflicts

- Meetings are the most effective way to negotiate requirements and resolve requirements conflicts.
- All requirements which are in conflict should be discussed individually.
- Negotiation meetings should be conducted in three stage.

Stages of Negotiation Meetings

- Information stage
- Discussion stage
- Resolution stage

Stages of Negotiation Meetings

Information stage:

An information stage where the nature of the problems associated with a requirement is explained.

Stages of Negotiation Meetings

Discussion stage:

- A discussion stage where the stakeholders involved discuss how these problems might be resolved.
 - All stakeholders with an interest in the requirement should be given the opportunity to comment.
 - Priorities may be assigned to requirements at this stage.

Stages of Negotiation Meetings

Resolution stage:

- ➤ A resolution stage where actions concerning the requirement are agreed.
 - These actions might be to delete the requirement.
 - To suggest specific modifications to the requirement
 - Or to elicit further information about the requirement.

THANK YOU

Dr. Syed Muazzam Ali Shah muazzam.ali@nu.edu.pk