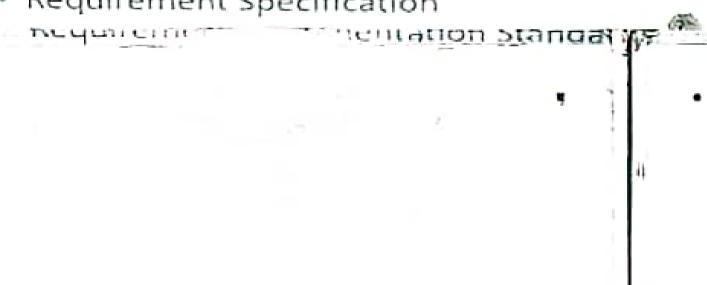


Overview of Previous Lecture

- Requirements Specification & Documentation
 - Requirement Specification



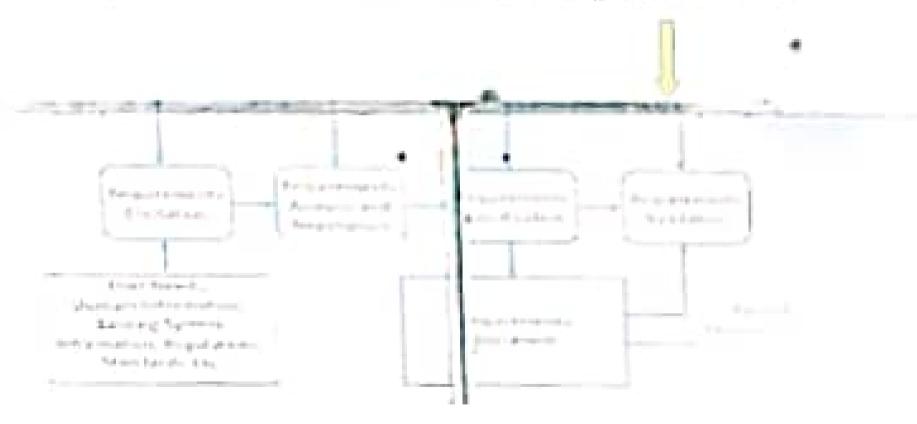


Today's Topics

- Requirements validation
- Validation techniques



Requirements Engineering Process





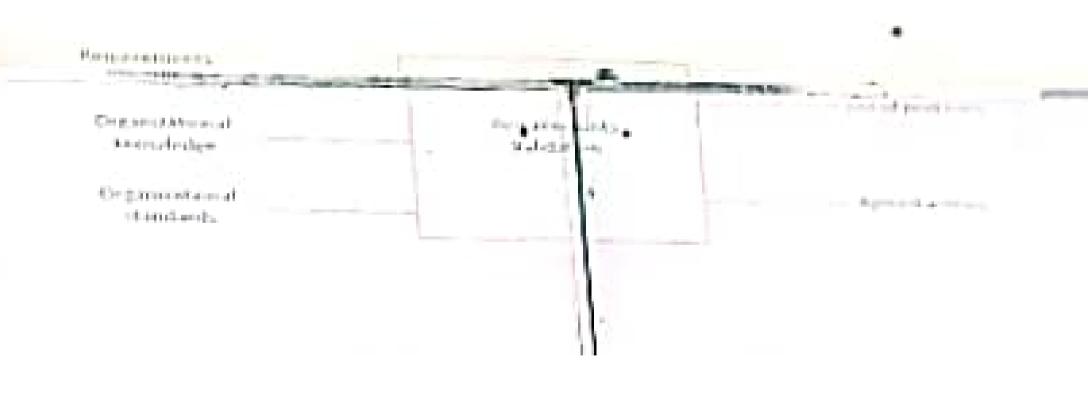
Validation Objectives

- Certifies that the requirements document is an acceptable description of the system to be implemented
 - Checks a requirements document for
 - Completeness and consistend
 - Conformance to standards
 - Requirements conflicts
 - Technical errors
 - Ambiguous requirements

Analysis and Validation

- Analysis works with raw requirements as elicited from the system stakeholders
 - "Howe we got the right required being to the key question to be answered at this stage
 - Validation works with a final draft of the requirements document i.e., with negotiated and agreed requirements
 - "Have we got the requirement, right" is the key question to be answered at this stage

Validation Inputs and Outputs



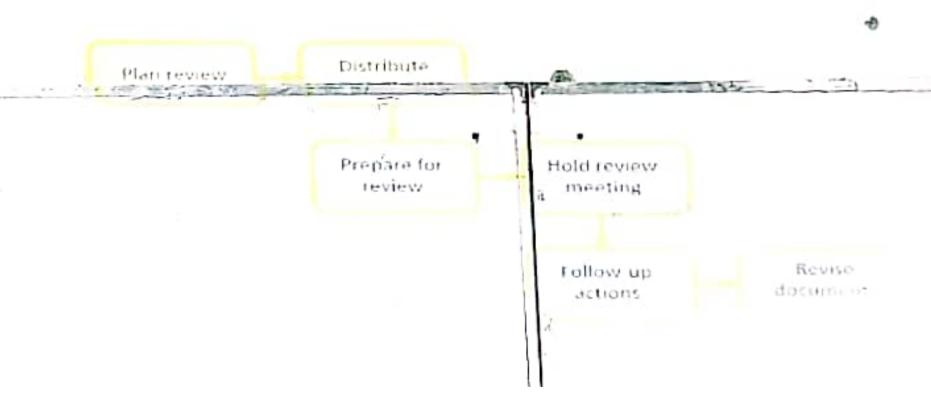


Requirements Reviews

 A group of people read and analyze the requirements, look for problems, meet and discuss the problems and agree on actions to address these problems.



Requirements Review Process





Problem Actions

- Requirements clarification
- Missing information
- · Requirements conflict
- Unrealistic requirement

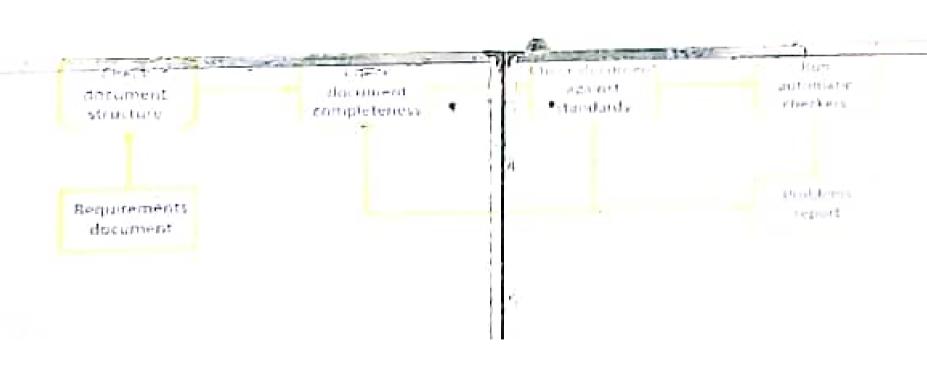


Pre-review Checking

- Reviews are expensive because they involve a number of people spending time reading and checking the requirements document.
- This expense can be reduced by using pre-review checking where one person checks the document and looks for straightforward problems such as missing requirements, lack of conformance to standards, typographical errors, etc.
- Document may be returned for correction or the list of problems distributed to other reviewers



Pre-review Checking Stages





Summary - 1

- Requirements validation should focus on checking the final draft of the requirements document for conflicts, omissions and deviations from standards.
 - Inputs to the validation process are the requirements document, organizational standards and implicit organizational knowledge. The putputs are a list of requirements problems and agreed actions to address these problems



Summary - 2

- Reviews involve a group of people making a detaile analysis of the requirements
- Review costs can be reduced by checking the requirements before the review for deviations from organizational standards. These may result from more serious requirements problems