Requirement Engineering
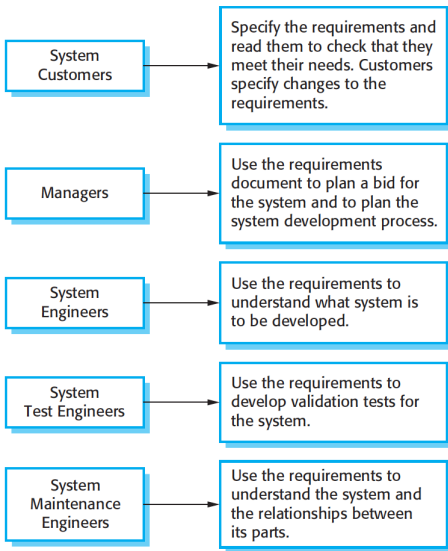## Requirement Documentation

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Software Requirement Document

- An official statement of what the system developers should implement

- Should include both the user requirements for a system and a detailed specification of the system requirements

- Essential when an outside contractor is developing the software system

Users of the Requirement Document

System Customers	Specify the requirements and read them to check that they meet their needs. Customers specify changes to the requirements.
Managers	Use the requirements document to plan a bid for the system and to plan the system development process.
System Engineers	Use the requirements to understand what system is to be developed.
System Test Engineers	Use the requirements to develop validation tests for the system.
System Maintenance Engineers	Use the requirements to understand the system and the relationships between its parts.

Organization of a Requirement Document

- Preface
- Introduction
- Glossary
- User requirement definition
- System architecture
- System requirement specification
- System models
- System evolution
- Appendices
- Index

Ways of Writing Requirement Specifications

- Natural language sentences

- Structured natural language

- Graphical notations

- Mathematical specifications

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