



Often it is difficult to exclude information because:

- You may have to design an initial architecture to help structure the specification
- The system must incorporate with existing systems
- You require a specific architecture to satisfy nonfunctional requirements

Note: While user requirements are usually written in natural language supplemented by diagrams, graphical models (e.g. UML) are useful when you need to show how a state changes or describe a sequence of actions



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requirement)

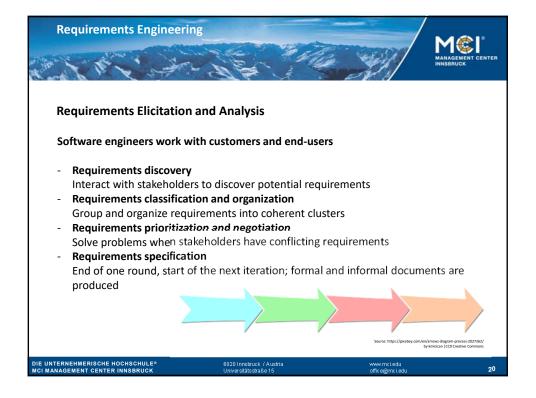
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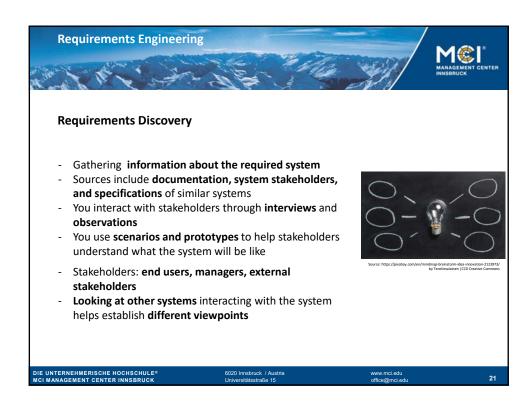
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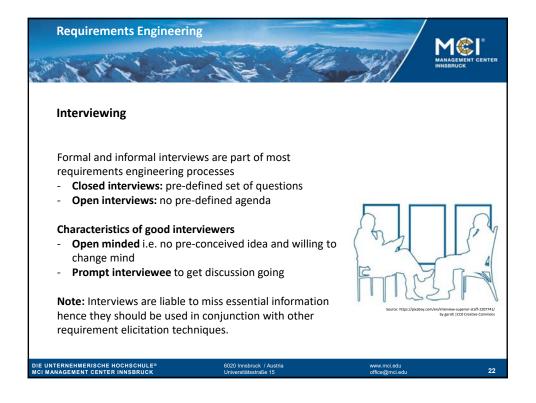
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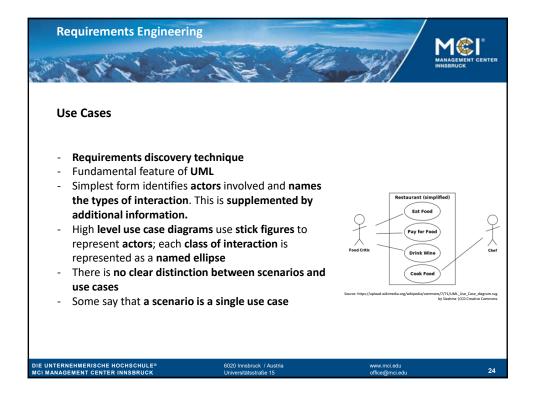




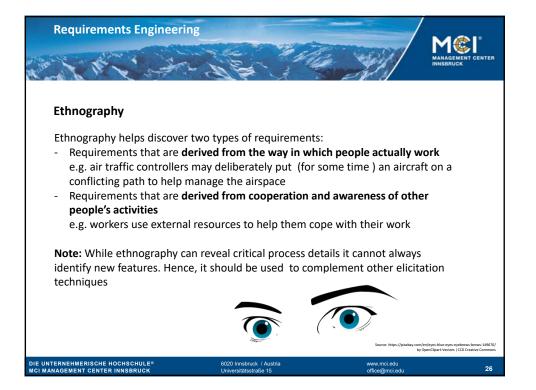


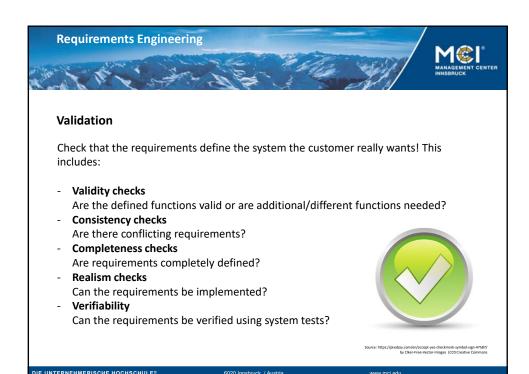














What you should have taken away from this class:

- Requirements for a software system set out what the system should do and define constraints
 on its operation and implementation.
- Functional requirements are statements of the services that the system must provide or are descriptions of how some computations must be carried out.
- Non-functional requirements often constrain the system being developed and the
 development process being used. These might be product requirements, organizational
 requirements, or external requirements. They often relate to the emergent properties of the
 system and therefore apply to the system as a whole.
- The software requirements specification is an agreed statement of the system requirements.
 It should be organized so that both system customers and software developers can use it.
- The requirements engineering process includes a feasibility study, requirements elicitation and analysis, requirements specification, and requirements validation.
- Requirements elicitation and analysis is an iterative process that can be represented as a spiral
 of activities requirements discovery, requirements classification and organization,
 requirements negotiation, and requirements documentation.
- Requirements validation is the process of checking the requirements for validity, consistency, completeness, realism and verifiability.

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