

Interpretation - Task Analysis

- Task analysis is a way of documenting how people perform tasks
- A task analysis includes all aspects of the work flow
- It is used to explore the requirements of the proposed system and structure the results of the data collection phase

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Interpretation - Task Analysis

• Task decomposition

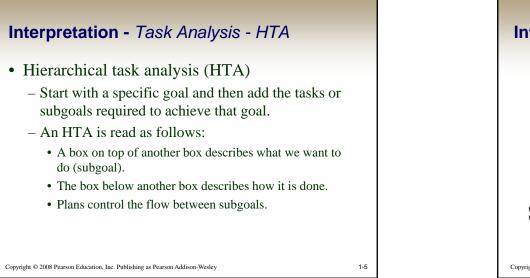
 A linear description of a process that captures the elements involved as well as the prevailing environmental factors.

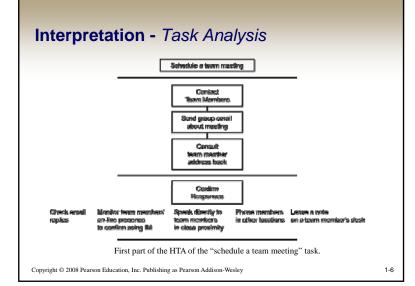
• Hierarchical task analysis (HTA)

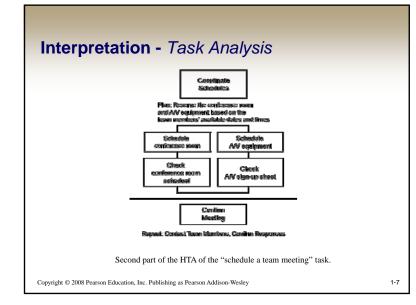
HTA provides a top-down, structured approach to documenting processes.

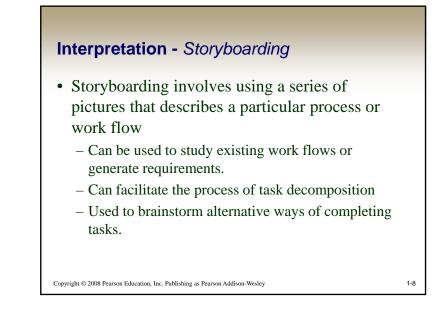
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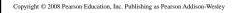




Storyboard from web.mit.edu

Interpretation – Use Cases

- The two main components of use cases are the actors and the use cases that represent their goals and tasks.
 - Actors: similar to stakeholders, but can also include other systems, networks, or software that interacts with the proposed system.
 - Use Cases: Each actor has a unique use case, which involves a task or goal the actor is engaged in.
 - Describe discrete goals that are accomplished in a short time period
 - Describe the various ways the system will be used and cover all of the potential functionality being built into the design



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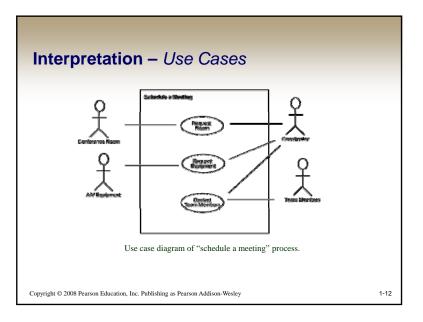
Interpretation – Use Cases

- Use cases represent a formal, structured approach to interpreting work flows and processes
 - Designed to describe a particular goal and explore the interaction between users and the actual system components.

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- Jacobson et al. (1992)
- Incorporated into the Unified Modeling Language (UML) standard.

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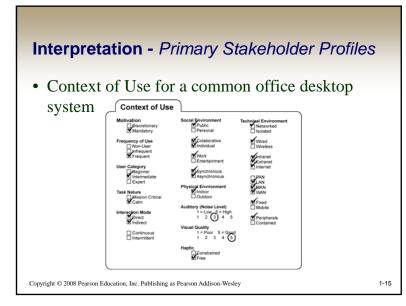
Interpretation - Primary Stakeholder Profiles

• Primary Stakeholder Profiles are used to define the target user

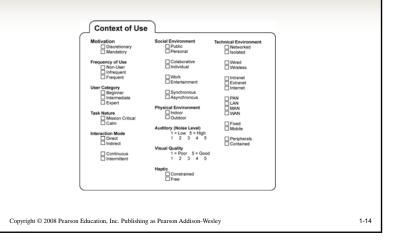
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- The constructs covered include:
 - Context of use
 - Cognitive ability
 - Physical ability
 - Individual profile

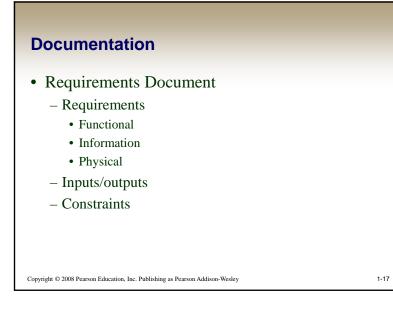
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Interpretation - Primary Stakeholder Profiles



Documentation	
Mission Statement	
– Project goals:	
• What is the value proposition?	
• What needs will the new system address?	
• How will it address these needs?	
 Project scope 	
• What does the proposed design include or exclude?	
• What are the external constraints such as time and finances?	
• How will you decide when it satisfies the design proposal?	
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Documentation

- Project Management Document
 - Definition of the tasks involved in the project
 - Risk
 - Evaluation criteria and methods
 - Implementation
 - Training
 - Maintenance
 - Future needs

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Summary

- Crucial to identify all stakeholders in a project
- Utilise a wide range of collection techniques to understand the needs of a project
- HTA, storyboarding and use case techniques allow for interpretation of collated data.