

## Class 15

### Work Reengineering and conceptual design

1. Bridging the gap between requirements and design
2. Work Reengineering
  - a. 3 Goals
    - i. Realizing the power and efficiency that automation makes possible
    - ii. Reengineering the work to more effectively support business goals
    - iii. Minimizing retraining by having the new product tap as much as possible into the users existing task knowledge, and maximizing efficiency and effectiveness by accommodating human cognitive constraints and capabilities within the context of their actual tasks.
  - b. Task allocation
    - i. Who/what will provide the data or knowledge necessary to complete task
    - ii. Who/what will physically accomplish the task
  - c. Sidebar on reactions of users
3. The digital Library example
4. Task scenarios
5. Use scenarios
6. Task Allocation for the digital library
  - a. Use Cases
    - i. Essential
    - ii. Concrete
7. Conceptual design
  - a. Content Diagram
  - b. Containers
  - c. Designing
    - i. Derive concrete use cases from essential use cases
    - ii. Identify the primary task objects, attributes, and actions
    - iii. Identify the different containers and the task objects that go into each one
    - iv. Link the containers to show the navigation flow
  - d. Developing using prototypes
  - e. Step 1
  - f. Step 2
    - i. Task objects, attributes, and actions
      1. Primary
      2. Class
      3. Attributes
        - a. Properties
        - b. Child Objects
      4. Actions
    - ii. Marking up uses cases