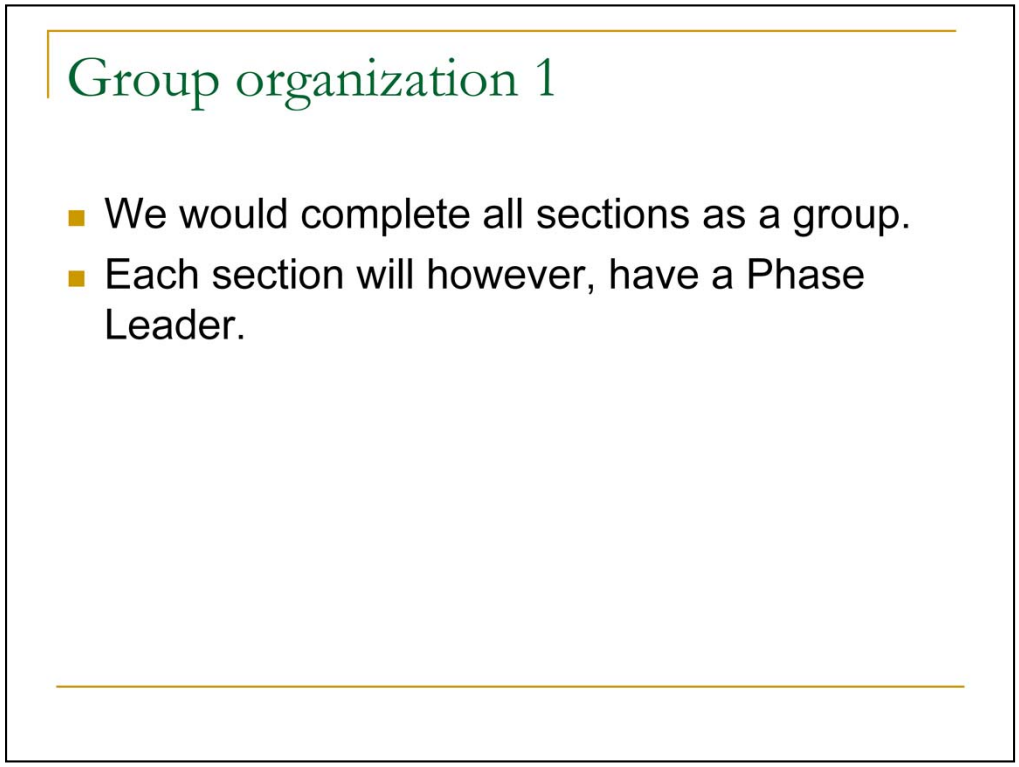
CP317 Projects

Fall 2014

Criteria

- Originality of concept
- Usefulness
- Technical achievements
- GUI
- Presentation

- Team organization
- Software life cycle model
- Your own deadlines



The Phase Leader will direct a meeting to organize requirements for the phase, divide up work for the phase, and be the figurehead for the phase.

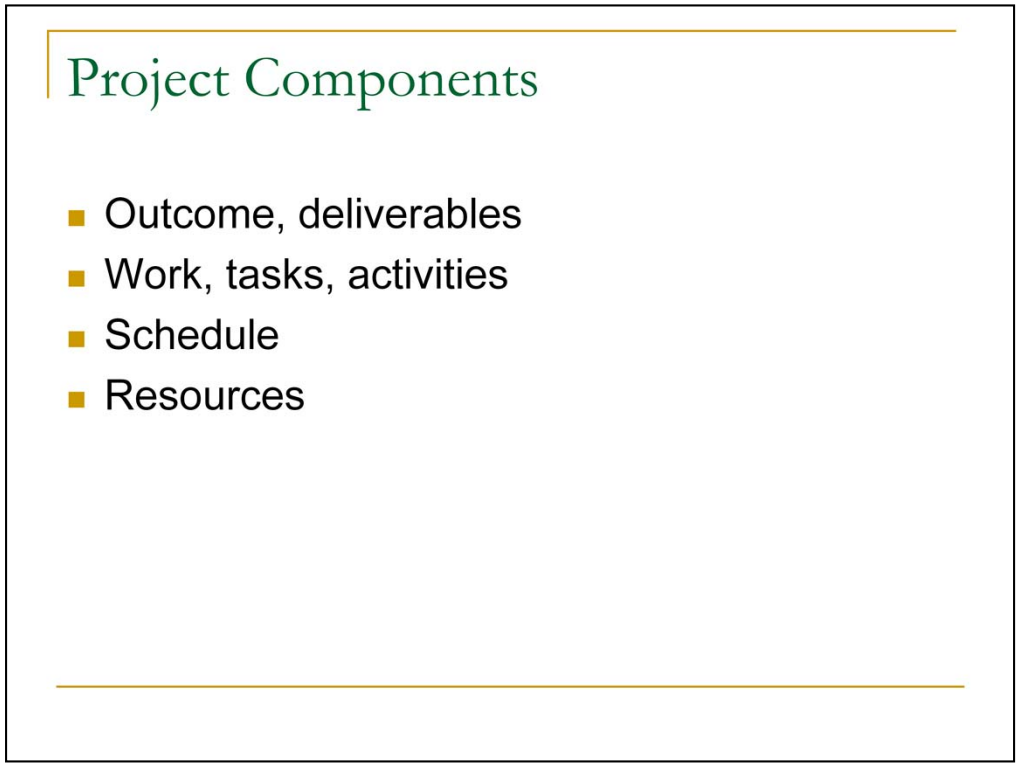
If any group member has questions regarding their work on a given section or the section as a whole, they will be directed to the given Phase Leader.

Group organization 2

- **Requirements:**
- As group:
- - Identify actors, scenarios, non-functional requirements and use cases
- A: - Identifying participation objects
- B: - Refining use cases and identifying relationship among use cases
- C: - Creating use case diagrams and further refining of use cases

example of timeline

- **Project Timeline:**
- Tuesday, Oct. 10: Meeting to decide roles, duties, meeting requirements.
- Tuesday, Oct. 17: Meeting to discuss goals for Requirements phase. Hosted by Phase Leader – Requirements.
- Saturday, Oct. 21: Collaboration of work, assembled by Phase Leader – Requirements.
- Tuesday, Oct. 24: Meeting to discuss goals for OO Analysis phase. Hosted by Phase Leader – Analysis.
- Saturday, Oct. 28: Collaboration of work, assembled by Phase Leader – Analysis.
- Tuesday, Oct. 31: Meeting to discuss goals OO Design phase. Hosted by Phase Leader – Design.

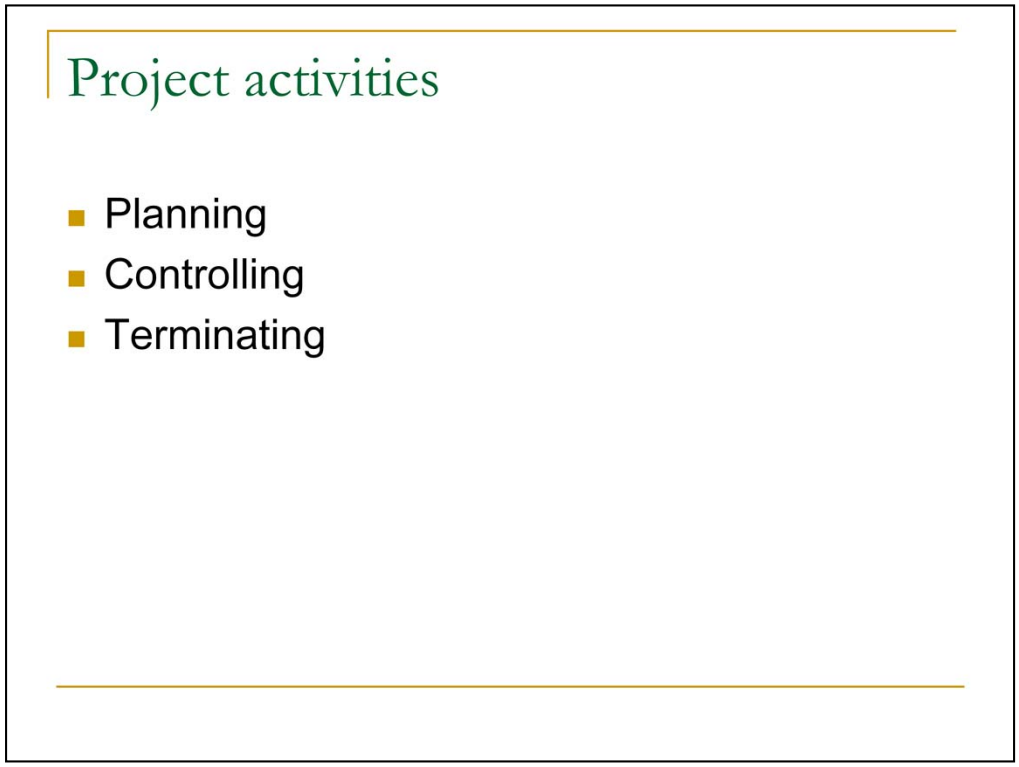


Outcome: deliverables are what you give customers

Work: task, or activities, is a unit of work. A task is the smallest amount of work that can be managed.

Schedule: timeline of the units of work.

Resources: people (participants), funds, equipment, facilities. People assume one or more roles.



Planning: specifying the results to be achieved. Activities and Tasks to produce results. Make schedule, estimating resources

Organizing: Define organization of project. Identifying roles and responsibilities. Roles are mapped to work in the planning activity

Controlling: Identifying when actual activities deviate from planned ones.

Terminating: Delivering the system. Installing the system. Reviewing the project history to extract lessons.

Skill Matrix

Task\ Participant	Bill	Mary	Sue	Ed
Control Design			P, I	
Database Design	P	P,I		I
U. I. Design			I	
Conf. Managemet	S			I

User Interface Design

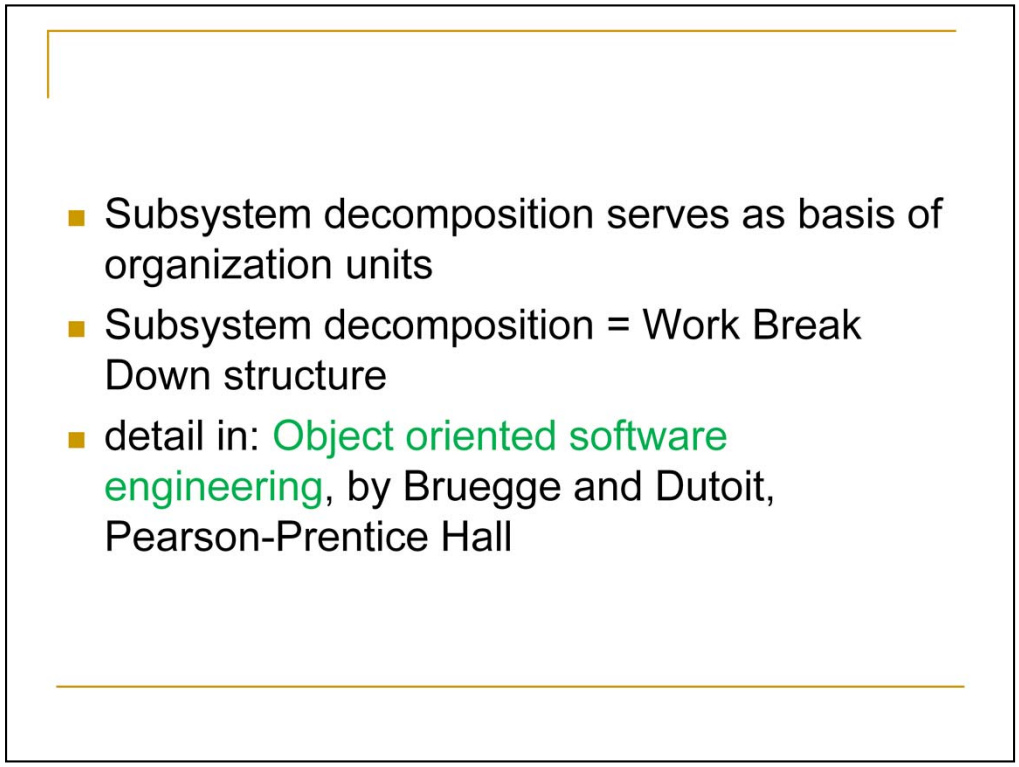
P: primary

S: secondary

I: interest

Top level design

- Software architecture
- Subsystem decomposition should be high level
  - Focus on functionality
  - Good analysis should make subsystem decomposition stable
  - New subsystems may be created during design phase



A **work breakdown structure (WBS)**, in project management and systems engineering, is a deliverable-oriented decomposition of a project into smaller components.

A work breakdown structure element may be a product, data, service, or any combination thereof. A WBS also provides the necessary framework for detailed cost estimating and control along with providing guidance for schedule development and control.

Work Breakdown Structure

Use case	W B S
Authenticate	1. Realize the authenticate use case 1. Develop user interface forms 2. Realize authenticate protocol with server 3. Develop initial account creation

Develop user interface: forms, login, change PIN

Work Breakdown Structure

Use case	W B S
Withdraw money	1. Develop money withdraw use case 1. Develop user interface forms 2. Realize communication with server 3. Develop business logic for approving withdrawal 4. Develop interface for cash distributor

Develop user interface: select account, specify amout,

Subsystem	W B S
User Interface	Develop User Interface
Control	Develop Control Subsystem
Database	Develop Database Sub.

Group composition

- Creative Common License --attribute
  - Let the instructor know…

Project evaluation

- expected equal contribution, same marks
- If unexpected
  - Peer evaluation: give your group member a mark between 1 and 5
  - …with justification
  - Instructor will use common sense

Project deadlines

- Thursday Oct 23, at 1PM: Submit your app proposal.
- Thursday Oct 30, at 1PM: three-page preliminary report on OO Requirements and Signed work division document. Hard copy and electronic copy (P1).
- Thursday November 6, at 1PM: three-page preliminary report on OO Analysis. Hard copy and electronic copy (P2)
- Thursday November 13, at 1PM: three-page preliminary report on OO Design . Hard copy and electronic copy(P3)
- Tuesday November 27, at 1PM: complete report (requirements, analysis, and design) in hard copy and electronic copy (P4)
- Monday Dec 1, midnight: The implementation of the app (P5)
- Tuesday Dec 2: App presentation, in class (P6)

Diagrams and figures are not counted toward the page requirement

Project mark distribution

Group submission	Percentage of final project marks
P1	3
P2	3
P3	4
P4	40
P5	50
P6	20