

Lecture 7

Project Management Classes

Richard J. Orgass
Information Systems Management
Carnegie Mellon University

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Agenda

- Class Topics
- Homeworks
- Final Exam
- Project Assignment and Milestones

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Class Topics

- March 13th (Today)
 - Overview of remainder of semester
 - Initial description of Project 4
- March 15th
 - Gene Milik, SEI
 - Need for software process
 - Capability Maturity Model (CMM)
- March 20th
 - Project 4 Client Visit and Interview
- March 22nd
 - Cockburn, Chapter 2
- March 27th and 29th
 - Spring Vacation

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Class Topics -- II

- April 3rd
 - Trish Oberndorf, SEI
 - Gotchas when using COTS
- April 5th
 - Cockburn, Chapter 3
- April 10th
 - Cockburn, Chapter 4
- April 12th
 - Cockburn, Chapter 5
 - Preparation for Kay Video
- April 17th
 - Alan Kay Presentation Video
- April 19th
 - Discussion of Kay Video

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Class Topics -- III

- April 24th
 - Linda Northrop, SEI
 - Architecture of Object Oriented Systems
- April 26th
 - Cockburn, Chapter 6
- May 1st
 - Cockburn, Chapter 7 (lightly)
- May 3rd
 - Cockburn, Chapter 8 (lightly)

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Homeworks

- Each assignment consists of:
 - Reading a Chapter of Cockburn
 - Turning in written answers to questions about the chapter
 - Preparing two questions for discussion in class
 - Ask for further explanation of parts of the text
 - Ask about applying the text to real situations
- March 22nd -- Chapter 2
- April 5th -- Chapter 3
- April 10th -- Chapter 4
- April 12th -- Chapter 5
- April 26th -- Chapter 6
- May 1st -- Chapter 7 (lightly)
- May 3rd -- Chapter 8 (lightly)

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Final Exam

- Term paper of up to 15 pages.
 - 8.5" by 11" paper
 - 1" margins on all sides
 - 10 point type set on 12 point lines
 - Use some form of emphasis for headings
- Paper will address
 - Speaker presentations
 - Readings in Cockburn
 - Experiences in your Project Teams
- A broad general topic will be assigned
 - Bring in material from the above sources
 - Organize the material we discussed.
- Due Friday, May 5th at 5:00 pm
 - No extensions -- registrar's rule

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Project 4

- Team Project
 - Teams will be assigned
 - 5 Milestones
- Warning
 - Completing the last milestone can take a lot of time
 - Start working on it before the previous milestone is due
- Single grade for each team's project
- Peer evaluations determine individual grades
- If there is friction in the team
 - Your project is at serious risk
 - Work out the problems as a team or
 - Seek help from the instructor or TAs
 - Pretending the problem doesn't exist is like having cancer and refusing to accept treatment

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Project 4 -- II

- Each team is a newly formed company
- Intellectual Property Assets are:
 - skills and knowledge of the team members
 - Sparse Matrix Programs created but the team members
- Project is a software re engineering problem
- Selectively merge the programs on hand
 - create a stronger program
 - clean up mistakes team members made
 - pick the best parts of all the programs
- Interview Client to determine requirements
- Write use cases
 - Some from Problem 1 statement
 - Some from Client Interview

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Project 4 -- III

- Create class diagrams
 - from existing software
 - from use cases
 - from client interview
- And links and associations as needed.
- Create Sequence and/or Collaboration Diagrams
 - Based on
 - existing software
 - client requirements
- Create Running skeleton code
 - Each method of each object
 - prints a message that it was called
 - calls each method that is to be called by the object
 - May use Rational Rose Code Generation
 - Compile and Execute Code

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Project 4 Milestones

- Due Dates and Descriptions
- Milestone 1 -- March 22nd
 - Assessment of designs and code on hand
- Milestone 2 -- April 5th
 - Use Cases with road map
- Milestone 3 -- Class Diagrams, links and associations
 - April 12th
- Milestone 4 -- April 24th
 - Collaboration and/or Sequence Diagrams
- Milestone 5 -- May 3rd
 - Running Skeleton Code

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