Software Process III

Week 4
Announcement

- Midterm I: Postponed
  - 1:00 – 1:50 pm Wednesday 23rd March
  - Ch. 1, 2, 3 and 26.5
  - Hour 1, 6, 7 and 19 (pp.331 – 335)
Agenda (Lecture)

• Software process models
  – PSP
  – TSP
  – CMMI

• Present project proposals
Agenda (Lab)

- Use case description
- Activity diagram
- SRS document
- Weekly progress report
- Hour 11 quizzes (p. 194)
- Submit the progress report, proposal and the answers of the quizzes by the end of the Wednesday lab session.
Team Lab Assignment #3

• Submit the first version of use case descriptions for your group project
  – If necessary, modify the first version of the use case diagram
  – Submit the (modified) use case diagram and associated use case descriptions.
  – Note that each use case should be described.

• Due date
  – The end of the 2/16 lab session
Team Lab Assignment #4

• Submit the first version of the system-level activity diagram for your group project

• Due date
  – The end of the 2/16 lab session
Team Lab Assignment #5

• Create a software requirement and specification document (a.k.a. SRS) for your group project. Refer to the sample at www.csun.edu/~twang/380/Slides/SRS-Sample.pdf.

• Due date
  – The end of the 2/23 lab session
Activity Diagrams

• Focus on the execution and flow of the behavior of a system, sub-system, or even class methods
• Are applicable to any type of behavioral models; business process, software process, workflows, etc.
• Capture activities that are made of smaller actions
Activity Diagram Elements

- Activities
- Initial node and final node
- Activity edges
- Control nodes
  - Decision nodes with guard conditions
  - Merge nodes
  - Fork and join nodes (multiple concurrent flows) and exit points
Activity Partitions

• It is helpful to indicate who (or what) is responsible for a set of activities in an activity diagram
• You can divide an activity diagram using two parallel lines, called *swimlanes*