Lecture 6: Term Project I

COSI 120b, Principles of Software Engineering
Where Are You?

- Established project groups of 3 - 4 people
- Thought about a software system you want to build
- Spent some quality time thinking about software requirements engineering
The Term Project, part 1

• Apply your understanding of requirements engineering to a large project

• You will
  – Identify stakeholders
  – Construct requirement statement
  – Draw UML use cases
  – Write use case statements
  – Build traceability tables
  – Verify requirements
Tasks

• As a group, pick a large complex software application you want to build
  – Email me your choice before you start

• Elicit requirements
  – Each member of your group is a stakeholder
  – The remainder of the group elicits requirements from each stakeholder in turn
  – Come up with a set of requirements
  – No cheating! If your requirements are all nicely lined up and complementary, you are not doing this right
Tasks

• Build use cases
  – From these requirements build
    • Use case statements (using Cockburn’s template)
    • Use case diagrams in UML

• Negotiate
  – Determine feasibility of the requirements
    • Conflicts, unreasonable requirements, unnecessary requirements
    • Negotiate a set of reasonable requirements
Tasks

• Verify
  – With a new version of your use cases in hand, verify the requirements with the stakeholders
  – Use the verification questions
  – Construct the four tracability tables
Hand-In

• By 5pm on 3/2/2005, turn in:
  – The list of stakeholders (name and type)
  – Your initial requirements statement
  – Your initial use cases (template and UML)
  – Your negotiated use cases and a couple of paragraphs of what changed
  – Your traceability tables
  – Your verification questions and answers

• During class on 3/7 and 3/9, each group will spend 10 minutes talking about their results