

CS 6361 — Requirements Engineering
Project Phase II: Second Iteration - Semi-formal Specification
Due: 5:30pm Thursday October 27 (hardcopy in class; softcopy on web)

To be and Not to be

I. Summary

Your team shall further carry out your elicitation, analysis and specification of the SDMS - Synergy Distributed Meeting Scheduler system, based on the first part of the course project. More specifically, your team shall transform the dependency-based specification into UML+ and an NFR specification; and make your prototype system more fully functional.

UML+ is an extended UML, i.e., UML plus any new features that you think are needed for modeling your SDMS adequately (esp. for things in your dependency graph that cannot easily be mapped into UML, and for things that are needed to accommodate other notations such as SADT or RML/Telos).

II. The Deliverable

Your description should be elegant and comprehensible. Your deliverable should be available as both on-line (one URL per team member) and off-line specifications (submission of one copy per team). You can choose to use an IEEE-style format for the deliverable, in which the major sections typically include: Introduction, Main Body (items below, for this project), Glossary (Definitions and Acronyms) and References (See, for example, " Document Templates - general IEEE" on the course web site).

1. **The Process** At least two aspects of the process:
 - There will typically be multiple stakeholders involved in the development. Identify the stakeholders and describe how your team was divided up in handling this multiplicity and what was the role of each team member.
 - There will typically be multiple sources of requirements for just about any kind of RE project. Identify and describe what sources were considered and to what extent.
2. **Issues** Discuss any issues (e.g., (e.g., incompleteness, inconsistency, ambiguity, redundancy)) that you have encountered in constructing a semi-formal SMDS specification - in particular 1) issues with defects; 2) issues with translating your dependency graph into UML+; and 3) issues with further refinements of non-functional requirements due to the use of now UML+. As with the first deliverable, discuss how you have resolved the issues by describing options considered, tradeoffs analysed, and decisions made. In order to resolve the issues, you might need to use your own "creative imagination" but based on your teamwork.
3. **A Requirements Model/Specification** The functional requirements model/specification should be described in UML+; the non-functional requirements model/specification should also be described in a dependence graph. For each diagram/model, the deliverable should specify the necessary constraints as much as needed.
4. **A prototype:** Make your (mockup) prototype, as part of the deliverable I, more fully functional.