

# Analysis and Design of Large Scale Software II (SENG 401)

## Project Part 1 Specification: Conceptual View

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### Overview

Part 1 of the project entails doing a conceptual view of the project as specified by the concept mapping application requirements given in a separate document. You will have to do all the parts of the conceptual view:

- Global Analysis (output: factor table, issue cards)
- Central Design Tasks (output: multiple levels of configuration diagrams)
  - Conceptual Components
  - Conceptual Connectors
  - Conceptual Configuration
  - Global Evaluation
- Final Design Task (output: budget for memory, time, system resources, etc.)
  - Resource Budgeting

The remaining parts will eventually complete the document. (Part 2 will fill out the module view, etc.)

### Size and Scope

Note that doing the complete conceptual view for the application will be fairly large. You are therefore limited to doing only a partial (and well chosen) subset of the architecture, depending on your experience and interest areas. Choose this subset such that you can build on it in the subsequent module view, executions view, and code view. Note that you are responsible to choose an appropriate subset -- component decompositions, etc, that are trivial will not earn you many marks.

The complete document should be no less than 8 pages long, single spaced, 10 point font, including diagrams, charts, tables, and references. You should include a **minimum** (over and above the ones given in class) of

- 7 entries in the factor table
- 6 issue cards (issue cards can be included as tables within your document, multiple issue cards to a page)
- 1 high level configuration diagram (can be based on the one developed in class, but will probably extend it)
- 2 component decomposition configuration diagrams.
- 1 protocol diagram
- Any supporting material, including references, appendices, summary of design decisions, glossary, etc.

## Hints

**Assignment** An MS Word template for the assignment is provided. I highly recommend **Template** you use this template. Note that this template incorporates *styles*, and you would be well advised to make use of them.

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However, if you don't have MS Word, you can also reference the PDF version.

You are encouraged to use the sections as specified in the template, however that does not preclude you from including additional sections as appropriate.

**Cross** Since you are using the concept mapping application requirements as the **References** basis of your application design, each of your issues and design points should be fulfilling one or more of the requirements (although it's possible that some design elements may be fulfilling implicit requirements or organizational requirements that you have just made up). Almost every design element should refer to one or more requirements, issues, or other parts of the document by name (and would be hyperlinked if this was an electronic document).

**Citations** You must properly cite of any material you get from other sources. The assignment templates in MS WORD and PDF give an example of a citation to the course text book, but you must also site other sources including "personal communication" with your colleagues.