

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

Project Part 2 Specification: Module View

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Overview

Part 2 of the project entails doing a module view of the project as specified by the concept mapping application requirements, based on the previous assignment where you specified the conceptual view. You will have to do all the parts of the module view:

- Global Analysis (output: new and modified entries in the: factor table, and new and modified issue cards)
- Central Design Tasks (output: multiple levels of use dependency diagrams [between modules], assignment of modules to layers, and use dependency diagrams between layers)
 - Modules
 - Layers
 - Global Evaluation
- Final Design Task (output: interface design)
 - Interface Design

Size and Scope

Because the complete module level design would be fairly large, you are 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 execution view and code view. Note that you are responsible to choose an appropriate subset.

The complete document should add no less than 8 pages to the existing document (from assignment 1, the conceptual view), single spaced, 10 point font, including diagrams, charts, tables, and references. You should include a

minimum (excluding the ones given in the template) of:

- 3 new entries in the factor table
- 3 new or significantly modified issue cards (issue cards can be included as tables within your document, multiple issue cards to a page)
- A complete mapping of elements from your (possibly altered) conceptual configuration to modules
- 2 new (or significantly enhanced) use dependency diagrams between modules
- 2 new (or significantly enhanced) diagrams assigning modules to layers
- 1 new (or significantly enhanced) use dependency diagrams between layers
- 3 interface design specs
- Any supporting material, including references, appendices, etc.

You are also expected to **modify** the previously done work (the conceptual view) both according to the comments received, and according to changes brought about by design decisions in this assignment.

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.

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 and the **References** conceptual view from your previous assignment as the basis of your module view, each of your issues and design points should be fulfilling one or more of the requirements or building upon one or more of the design points in the conceptual view. 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.

Ease of reading The best way to do this assignment is to extend assignment 1 that you have already done. However, to ease the job of marking it (and therefore put the marker in a good mood), please delimit the text and diagrams you have already submitted in the previous assignment by marking it with bar down at the right hand side of the page. This can be done, e.g., by running a highlighter down the right side of the page. (Marks will be deducted if you don't do this.)