COMP 3700 Assignment 4 Grading Scheme

The grading scheme for this assignment will be slightly different from those used for the first three assignments. The focus in this assignment is on the modeling process and the communication skills necessary to convey your modeling effort. However, this does not excuse you from following directions or correctly using UML notation.

Six checklists have been developed, each of which contains a number of statements which may or may not describe a given submission. Associated with each checklist is a numeric grade on a 100-point scale. Grading will consist of checking items in the checklist which most closely correspond to the assignment as a whole (some items are mutually exclusive, some are not). Selections will be motivated with examples from the submission. The numeric grade assigned to a submission will be computed by taking a weighted average of the numeric grades associated with checklists, where the weights are the number of selected checklist items. Below are the checklists, along with an example of computing a numeric score for a hypothetical submission.

Grading Rubric:

100/100 – Excellent: Work is of exceptional quality.
– Text is clear, logical, and coherent. *
– Use of natural language (English) is free of defects. **
– Use of technical language (UML) is free of defects. ***
– The model developed covers all and only relevant aspects of the system.
– The model is at an appropriate and consistent level of detail w.r.t. The concept statement.
– The submission follows directions given for the assignment. ****

85/100 – Above Average: Work is of good quality.
– Text is mostly clear, logical, and coherent. *
– Use of natural language is free of most defects. **
– Use of technical language is free of most defects. ***
– The model developed covers most and mostly relevant aspects of the system.
– The model is at a generally appropriate level of detail w.r.t. the concept statement, although there is slight variation in the level of detail.
– The submission follows most directions given for the assignment. ****

70/100 – Average: Work is of acceptable quality.
– Text is generally clear, logical, and coherent. *
– Use of natural language is free of most major defects. **
– Use of technical language is free of most major defects. ***
– The model developed covers a majority of relevant aspects of the system and relatively few irrelevant aspects.
– The model is defined at distinctly different levels of detail, most of which are appropriate w.r.t. the concept statement but which may not represent a coherent approach.
– The submission follows most important directions. ****

55/100 – <u>Below Average</u>: Work is of poor quality.

- Text contains notable problems with clarity, logical flow, or coherency but succeeds in conveying the author's intent. *
- Use of natural language contains several minor defects or few major defects which do not impair understanding of the intent. **
- Use of technical language contains several minor defects or few major defects which do not impair understanding of the intent. ***
- The model developed does not address some aspects of the system which are important or addresses some aspects which are not important.
- The model is defined at various levels of detail of which only some are appropriate w.r.t. the concept statement.
- The submission fails to follow some important directions or several directions of lesser importance. ****

40/100 – <u>Unacceptable</u>: Work is of unacceptable quality.

- Text contains problems with clarity, logical flow, or coherency and these problems impair communication significantly. *
- Use of natural language contains major defects which impair understanding. **
- Use of technical language contains major defects which impair understanding. ***
- The model developed addresses few, if any, relevant aspects or addresses many irrelevant aspects.
- The model is not defined at any coherent level of detail w.r.t. the concept statement.
- The submission fails to satisfy several important directions. ****

0/100 – <u>No Genuine Attempt</u>: Work is missing or does not demonstrate genuine effort.

- Text is either not submitted or is of such low quality that it does not represent a genuine attempt to complete the assignment.
- Use of natural language is either not present or is of such low quality that it does not represent a genuine attempt to complete the assignment.
- Use of technical language is either not present or is of such low quality that it does not represent a genuine attempt to complete the assignment.
- The model does not address any of the system's aspects or does so in such an artificial or superficial way that it does not represent a genuine attempt to complete the assignment.
- The submission does not follow any directions or it follows so few that it does not represent a genuine attempt to complete the assignment.

*..........This applies to the concept statement and to textual explanations or descriptions of diagrams and modeling decisions.
**........This applies to any written words, including those above* as well as those appearing as labels within diagrams. At least grammar, spelling and vocabulary will be evaluated.
***......This applies to all UML diagrams as well as to the formatting of certain textual items (such as use case descriptions) for which UML prescribes a notation.
****....Specific directions for each problem can be found in Blackboard e-mail, in the assignment description, and by asking either Dr. Yilmaz or Patrick. Directions are summarized on the next page.

Specific Directions:

<u>Part 1</u>
- The concept statement should be one page, double-spaced with 1" margins on all sides and using Times New Roman 12-point font. This should come out to about 200-300 words, depending on vocabulary.
- All potential classes, associations, and attributes identified through linguistic analysis should be clearly and explicitly indicated.
- The elimination of classes, associations, and attributes should be clearly indicated and explanations relating to heuristic methods should be explicitly given for each decision.

<u>Part 2</u>
- There should be at least five use cases.

<u>Part 3</u>
- The two-column format for use-case specification should be used to specify system and actor responsibilities.
- Each use-case specification should clearly and explicitly give the use-case name, participants, preconditions, flow of events for both normal and exceptional situations, and postconditions.

<u>Part 4</u>
- Each interaction in each scenario should be captured by some system sequence diagram.
- Each interaction in each system sequence diagram should be illustrated in some scenario.

Grade Computation Example

Consider a submission for which the following items are deemed most appropriate:
- Text is clear, logical, and coherent. (100)
- Use of natural language is free of most defects. (85)
- Use of technical language is free of most defects. (85)
- The model developed covers a majority of relevant aspects of the system and relatively few irrelevant aspects. (70)
- The model is defined at distinctly different levels of detail, most of which are appropriate w.r.t. the concept statement but which may not represent a coherent approach. (70)
- The submission follows most important directions. (70)

The grade assigned to this submission is calculated as $(100 + 85 + 85 + 70 + 70 + 70) / 6 = 80$. Note that the number of selected items may not necessarily cover all areas, and that some submissions may merit checking several items in a single area. For instance, the quality of text may vary from the concept statement to the use-case descriptions, in which case "Text is clear, logical, and coherent," and "Text contains notable problems with clarity, logical flow, or coherency but succeeds in conveying the author's intent," may both be selected.