

CSC340F Assignment 2 - Requirements Analysis

Marker:

Team: _____
—

Total Marks: _____/100

Marks for this assignment depend on the factors and criteria listed below.

A: Requirements Specification (40%) _____

A1. Problem identification. How well have you researched the problem, and the organization you are dealing with; how well do you describe the alternative you have selected.

Value 10

Marks: _____

* Synopsis of the problem:

() insufficient () partially sufficient () adequate

* Description of the proposed alternative:

() insufficient () partially sufficient () adequate

A2: Requirements Specification.

How complete and well organized is the presentation of requirements?

Value 30

Marks: _____

* Functional (software) requirements

() insufficient () partially sufficient () adequate

* Non-functional requirements (performance, platform, interface, etc)

() insufficient () partially sufficient () adequate

* Are the requirements numbered and well organized? Are they complete, consistent, unambiguous, traceable, etc.

() no () partially () yes

B: UML Diagrams (40%) _____

Figures, diagrams and discussion that lead the reader to believe that the requirements you have specified are complete and appropriate for the proposed system.

Value 40

marks: _____

B1. Use Case Diagrams.

Value 10

marks: _____

* (Informal) Description of each Use Case Diagram.

() insufficient () partially sufficient () adequate

* A relevant report derived from the data dictionary was included.

() yes () no

* Discussion of the diagrams and how they relate to the requirements.

() insufficient () partially sufficient () adequate

* Quality of the diagrams.

- () A- Poor selection - few if any Use Cases are appropriate.
- () B- Some valid attempt has been made at identifying Use Cases. Perhaps some serious flaws or omissions.
- () C- All high level Use Case description documented. Perhaps some are inappropriate.
- () D- Some relevant expanded version of Use Cases included. Sensible structuring of Use Cases. Only minor errors.
- () E- Exhaustive treatment of Use Cases. All relevant relationships have been captured.

B2. Class Diagrams.

Value 15

marks: _____

- * A relevant report derived from the data dictionary has been included.
 - () yes () partially () no
- * Classes are fully consistent.
 - () yes () partially () no
- * Adequate use of OCL to define class invariants, also operation pre/post-conditions.
 - () yes () partially () no
- * Quality of the class model.
 - () A- Poor selection - few if any classes are appropriate
 - () B- Some valid attempt has been made at identifying classes. Perhaps some serious flaws or omissions.
 - () C- Some sensible decisions documented. Perhaps some are inappropriate.
 - () D- Nearly all relevant decisions included and suitably justified. Any errors are minor.
 - () E- Exhaustive treatment of issues, fully consistent & imaginatively justified.
- * (Informal) Description of Class Diagrams.
 - () insufficient () partially sufficient () adequate
- * Discussion of the diagrams and how they relate to the requirements.
 - () insufficient () partially sufficient () adequate
- * Quality of the diagrams:
 - () A- Little or no attempt to create them, or nounderstanding of structuring.
 - () B- Some valid attempt has been made at structuring. Perhaps some serious flaws or omissions.
 - () C- Some sensible structuring. Perhaps some essential structuring is inappropriate or missing. Some use of navigability, multiplicity, roles, etc.
 - () D- Nearly all structuring well designed. Navigability fully justified. Includes appropriate placement of multiplicity, roles, etc.
 - () E- All relationship well structured. Consistent with case study, and imaginatively justified.

B3. Interaction and State Diagrams

Value 15

marks: _____

- * (Informal) Description of Interaction Diagrams.
 - () insufficient () partially sufficient () adequate
- * (Informal) Description of State Diagrams.

- () insufficient () partially sufficient () adequate
- * Discussion of these artifacts and how they relate to the requirements
 () insufficient () partially sufficient () adequate
- * Quality of the diagrams:
- () A- Little or no attempt, or really does not understand the Interaction and State Diagram notation.
 - () B- Some valid attempt made, but only for obvious interactions, etc. Perhaps Use Cases are not well-thought out.
 - () C- Reasonable attempt. Perhaps some interactions/events are inappropriate or inconsistent. Use Case may not have been prepared with enough care.
 - () D- Sound & complete diagrams. Most interactions/events are appropriate and consistent with all other diagrams.
 - () E- Complete & imaginative, fully consistent with case study & justified by imaginative assumptions.

C. Supporting Evidence (10%) _____

This includes appendices that describe meetings, diagrams, data dictionary and other information on the preparation of the assignment.

Value 10

marks: _____

D. Presentation (10%) _____

This component of the marking scheme evaluates the style of your presentation, including language, grammar, clarity of the presentation, organization of appendices, etc.

Value 10

marks: _____

D1. Language

Spelling and grammar.

Value 5

marks: _____

D2. Style and clarity

Table of contents, proper title page, page numbers, introduction, conclusions, etc.).

Value 5

marks: _____