

Term Assignment: Semantic eScience

(20 pts written and 15pts presentation of overall credit score)

Due: Presentation and writeup due by noon on class day Monday, November 28, 2011.

Submission method: email to [d1m@cs.rpi.edu](mailto:d1m@cs.rpi.edu), [chenw8@rpi.edu](mailto:chenw8@rpi.edu)

Please use the following file naming:

for electronic submission:

CSCI-6962-01\_TA\_YOURUSECASESHORTNAME.xxx

for any individual documents:

CSCI-6962-01\_TA\_YOURFIRSTNAME\_YOURLASTNAME.xxx

Late submission policy: first time with valid reason – no penalty, otherwise 20% of score deducted each late day

Note: Your report for this assignment should be the result of group work and group discussion and should have one submission for the group. Take care to avoid plagiarism (“copying”), including all web resources, texts, and class presentations. In areas where you have worked collaboratively or reused material give appropriate credit to the source(s).

Refer to the use case you implemented for Assignment 3 as well as class lectures.

General assignment: Use-case iteration using the developed use case that you participated in for Assignment 3. Perform an informal assessment of the use case implementation including the knowledge presentation (any ontology used and/or developed). Review the questions that the use case was intended to ask and answer and whether the goals were met. The aim of this assignment is to design an evolution plan for the use case implementation: what would you do for the next iteration and how it would be implemented, how more provenance would be exposed and leveraged, the resources, and skills needed, etc.?

The weighting score for each question is included below. Please use the question numbering (1-3) below for your written assignment.

1. Write an informal assessment of the a) use case implementation/ goals, etc. and b) knowledge encoding. Provide a 2-3-sentence description of each. (5pts)

2. Knowledge engineering (6pts)

a. Write a description of the plan for improved/iterated knowledge

encoding including provenance encoding, referring to the assessment in #1.

b. Describe how you would develop, code and implement the new knowledge encoding, including domain experts, review, etc.

3. Design (3pts)

a. Write a description of the plan for improved/iterated design, referring to the assessment in #1 and 2.

4. Implementation (6pts)

a. Write a description of the plan for new implementation, referring to the assessment in #1, 2 and 3.

b. Describe how you would develop, code and implement the plan, including any new resources (data, information, services, users, evaluation, etc.).

5. Include a description of who did what on the assignment including an evaluation if you all made approximately equal contributions or note if one or more people made greater contributions.

6. Oral presentation of the use case iteration (15pts) with explanation in sufficient detail to answer questions. If possible include any examples of your plans for or new knowledge encoding. Include value you perceived out of the small group discussion. Plan to present as a group for up to 30 minutes. We may have up to a 15 minute discussion period following your presentation. Your grades will be assessed on demonstration of knowledge of your work, what was implemented for the use case and what could be improved/ done next and the ability to answer questions. Please submit your presentation (ppt, pdf or similar using the same naming scheme as for questions 1-4) after the class.