Assignment 4: Xinformatics (Spring 2018) (10% written)
Due: TUESDAY March 28, 2018
Submission method: LMS
Please use the following file naming for electronic submission:
Xinformatics2018_A4_YOURFIRSTNAME_YOURLASTNAME.doc (or .docx)

Assignment: Information Models and Information Architectures. The weighting for each question is included below and in the rubric uploaded on LMS. Please Use the question number (1-3) below for your written responses for this assignment.

Analyze the use case you developed for Assignment 1 and derived requirements in Assignment 2.

1. Perform an information modeling exercise of your use case.
   a. Develop a Conceptual Information Model. What are the objects, relations, etc. and why did you choose them and their relations and exclude others? Min. 3-4 sentences. (2%)
   b. Submit a diagram of the conceptual information model that you developed. (2% undergraduate, 1% graduate)
   c. 6400-level Question: Submit a logical information model. (1%)

2. Consider your conceptual (and/or logical) information model and your use case goal and Normal Flow
   a. What “interface,” in an architectural sense, would be appropriate? (What elements of the architecture are visible to the actors, and what are not?). Min 3-4 sentences. (3% 4400-level, 2% 6400-level)
   b. At the interface you defined, what representation, i.e. of the semiotic system, seems appropriate to present the interface to a user, so that they can use it? Min. 3-4 sentences. (2% undergraduate, 1% graduate)
   c. 6400-level question: What is encapsulated below the interface and why? (1%)

3. What are the design considerations for your interface?
   a. List your design considerations for the interface you conceived in 2a (elements, principles, color, etc.). Min 2-3 sentences. (1%)
   b. What icons or symbols might you incorporate into a prototype to form one point of the semiotic triangle? What is the index between signifier and what is signified? Explain the choices in terms of information entropy and semiotics. Min. 2-3 sentences. (1%)