

Assignment 4: Xinformatics (Spring 2025) (10% written) Due: Wednesday, April 9th, 2025 by 10:00 pm ET

Submission method: email or LMS

Please use the following file naming for electronic submission:

Xinformatics2025_A4_YOURFIRSTNAME_YOURLASTNAME.doc (or .docx)

Level: _____ (4400-level OR 6400-level)

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

Analyze the use case you developed for Assignment 1 & 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% 4400-level, 1% 6400-level)
 - 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? What is the signifier and the signified for these examples?
Explain how these choices contribute to reducing uncertainty. Min. 2-3 sentences. (1%)