

Project assignment: Xinformatics (Spring 2010) (40% written, 10% presentation)

Due: TUESDAY May 11, 2010 (by 12pm ET)

Submission method for materials: email, [pfox@cs.rpi.edu](mailto:pfox@cs.rpi.edu).

Please use the following file naming for electronic submission:

Xinformatics2010\_Project\_YOURGROUP.xxx

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

Office hours: Monday 3-4, Winslow 2120 or by appointment

Note: Your report for this assignment should be the result of group work. Take care to avoid plagiarism (“copying”), including all web resources, texts, and class presentations. You may discuss the problems with other groups, but do not take written notes during these discussions, and do not share your written solutions.

General assignment: Information system/ Web site analysis, critique, use case modeling, re-design and prototype re-implementation. The weighting score for each question is included below. The detailed definition of the assignment details will be developed in class and within your team. Please use the question numbering (1-3) below for your written responses for this assignment.

1. Choose an information architecture/ system to analyze/ critique (10%)
  - a. Choose an advanced information application. If you have questions about your chosen area or need some suggestions, please contact your professor. Write 3-4 sentences describing the current implementation, what you think the use case is and why you made your choice.
  - b. Analyze the information architecture including presentation of information content, clarity, what goals of a use case were achievable, etc. 3-4 sentences
  - c. Critique the implementation in the areas defined in weeks 4, 5 and 6 (information uncertainty, semiotics, cognition, and architectures). Give details on your assessment; include screen shots and other documentation to support your critique. 5-6 sentences.
2. Perform a conceptual and logical model redesign for the system you chose. This design should include new architectural elements, content provisioning and application of information theory and architecture principles. Include design diagrams and (minimum) 1 page text description of the design. (20%)
3. Prototype the re-implementation. Discuss all considerations you used and reference material. Include mockups, architectural plans and related materials. Describe how you made implementation choices and relate them to the inferred functional requirements of the use case. 8-10 sentences and diagrams. (10%)
4. Oral presentation of the results for questions 1, 2, and 3. Plan to present for 20 minutes, followed by up to 10 minutes for questions. Your grade will be assessed on demonstration of learned skills in information theory, design and architecture. All members of the team should present part of the presentation. Please submit your presentation (ppt, pdf or similar), using the same naming scheme, after the class. (10%)