Final Project: Developing A Comprehensive Application Profile

Due Date: Marh 16th 2:00 PM PST

You need to choose a collection or an institution which provides interesting materials for your final project. A worthy candidate must present enough complexities that can be translated into a well-thought-out application profile. Your design of the application profile is expected to allow maximum interoperability, and adopting elements that use terms from known namespaces is highly recommended.

- **What is expected in the final project**
  1. Select a collection or an institution for which you want to design an application profile.
  2. Explain the main scope and purpose of that collection or mission of the institution.
  3. Describe main users and their activities.
  4. Provide a detailed description of your application profile (AP) by means of a comprehensive data dictionary. The DD must include the following: 1) Term name; 2) Which namespace it came from; 3) Cardinality (mandatory or optional, frequency of occurrence; 4) Definition of each term; and 5) Usage examples when appropriate).
  5. Design XML schemas as needed. Reusing the ones that you created for your previous IMT 531 assignments is more than acceptable.
  6. You are also free to create your own terms to meet the local needs. In case you do, create an XML schema for them and make sure that you assign an appropriate namespace for it.
  7. Implement all of your schemas using XMLSpy.
  8. Try to use vocabulary and syntax encoding schemes as much as possible and implement them using "simpleType" feature of XML Schema.
  9. Try to create your own datatypes using "complexTypes" for maximum reusability.
  10. Enter sufficient data to demonstrate that your AP meets the needs of your clients.

      You are to give a presentation on your work when the class meets on-line on March 16th. Your demonstration should be less than 10 minutes long and be done via a PPT file to ensure succinct communications. You may also show your AP using XMLSpy, but your presentation should contain necessary screen shots so your classmates can appreciate the essence of what you did via the ppt file.

- **What to submit**
  1. Written descriptions
  2. Your schema and application file(s) (xsd)
  3. Instance file(s) (xml)
  4. Your presentation file (PPT).

- Submit these files to "CollectIt" area.
- Please do not hesitate to email me at (samoh21@u.washington.edu) with any questions you may have about this assignment. If you need an immediate response, try to contact me at samoh21@gmail.com.