

SIMS 202 PHONE PROJECT – ASSIGNMENT 6

Metadata Design (Due November 18, 2004)

November 10, 2004

0. DOCUMENT SUMMARY

- 1. METADATA FRAMEWORK**
- 2. GUIDELINES**
- 3. FORMAT**
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1. METADATA FRAMEWORK

Now that you have your application idea for creating, sharing, and reusing mobile media and metadata, you will develop a *faceted* metadata framework that is both appropriate for your own application and maximizes reusability for the overall photo database. Also consider incorporating properties specific to photography (framing, orientation, etc.) into your metadata framework.

Ensure that your metadata is designed not only to meet the needs of your application, but facilitates accessibility to and reuse of your photos and metadata by other applications as well.

There is no set limit for the breadth and depth of your metadata framework. However, realize that because we may be using a phone interface to view and use the metadata, the complete framework cannot be easily displayed or navigated on the phone user interface. With this in mind, consider the challenges of creating a metadata framework for mobile media devices vs. other platforms such as web pages. How do the requirements of your application design and the affordances of the mobile media device affect which parts of your faceted metadata hierarchy you would make available to the user? How might your application use metadata available from the mobile device (CellID, GPS, time of capture, user information, Bluetooth presence, etc.) to help determine which part of your metadata framework to present to the user and which metadata could be gathered and/or inferred?

In addition to designing the “semantics” of your metadata ontology, since they will be faceted, you will also need to design their “syntax.” In addition to the Excel file you will submit with your ontology, you will need to write-up a set of rules and explanation for the syntax of your semantics. How should facets be combined in

terms of order and syntax? Can you make compounds of terms and compounds of those compounds? What syntax governs these combinations?

Time Estimate:

It should take you no more than 12 hours in total to come up with a metadata framework to submit.

2. GUIDELINES

To ensure that your metadata can be supported by applications such as the MMM-2 metadata server and annotation interface, please comply with the following requirements when creating your metadata framework:

- Separate each word in a descriptor name with a space
- Capitalize the first letter of each word in a descriptor name
- Do not use any of the following characters in a descriptor name:
 - < (less than)
 - > (greater than)
 - & (ampersand)
 - \t (tab)
 - ; (semicolon)

3. FORMAT

To have your metadata framework successfully uploaded into the MMM-2 server, you will create an Excel spreadsheet with the contents of your metadata framework formatted in the following way:

Main facet a

Main facet a 1st sublevel a

Main facet a 1st sublevel a 2nd sublevel a

Main facet a 1st sublevel a 2nd sublevel a leaf node a

Main facet a 1st sublevel a 2nd sublevel b

Main facet a 1st sublevel a 2nd sublevel b leaf node a

Main facet b

Main facet b 1st sublevel a

Here is an example from the MMM-1 metadata framework:

Location					
Location	Setting				
Location	Setting	Inside			

Location	Setting	Outside			
Location	Type				
Location	Type	Building			
Location	Type	Building	Room		
Location	Type	Building	Hallway		
Location	Type	Building	Stairs		
Location	Type	Open Space			
Location	Type	Road			
Location	Type	Wilderness			
Location	Geography				
Location	Geography	US			
Location	Geography	US	Bay Area		
Location	Geography	US	Bay Area	Alameda	
Location	Geography	US	Bay Area	Alameda	Berkeley
Location	Geography	US	Bay Area	Alameda	Albany
Location	Geography	US	Bay Area	Alameda	Emeryville
Location	Geography	US	Bay Area	Contra Costa	
Activities					
Activities	Moving Your Body				

Also, all numeric values must be formatted in excel as “number” with 0 (zero) decimal points so that they are uploaded as whole numbers and not decimals.

4. FEEDBACK SESSION

After submission of this assignment, the teaching team will review your work. In a 30 minute meeting, you will receive verbal feedback from the teaching team about your metadata framework. We will mail out available meeting times soon. Please determine team availability for Thursday, November 18, and Friday, November 19.

5. SUBMISSION REQUIREMENTS

PROCESS

- Review guidelines for creating, and examples of, faceted classification
- Create a metadata framework that complies with the design and format guidelines
- Write up the rules and explanation for the syntax for your metadata framework
- Write up a brief rationale and assessment explaining your metadata design choices, strengths, and weaknesses

- Write up a brief description of the challenges of designing a metadata framework for a mobile media device

DELIVERABLES

1. Brief rationale and assessment for metadata framework
2. Brief description of challenges in creating metadata for mobile media device
3. Excel spreadsheet with the metadata framework
4. Document describing and explaining the syntax rules for your metadata framework
5. List of top 3 meeting preferences (after we email out possible meeting times)

Submit an email to is202-ta@sims.berkeley.edu with the URL to your Assignment 6 web page (due November 18, before class). Your Assignment 6 web page should include links to the:

1. Rationale and assessment
2. Description of challenges
3. Spreadsheet containing your metadata framework
4. Syntax rules and explanation

Submit an email to is202-ta@sims.berkeley.edu with your meeting preferences before November 17.

Questions? Email: is202-ta@sims.berkeley.edu