

SIMS 202 PHONE PROJECT – ASSIGNMENT 4 (PART 1)

Metadata Design (Due October 2, 2003)

September 25, 2003

0. DOCUMENT SUMMARY

1. METADATA FRAMEWORK
2. GUIDELINES
3. FORMAT
4. FEEDBACK SIGN-UP
5. SUBMISSION REQUIREMENTS

1. METADATA FRAMEWORK

Now that you have an application idea and annotated photos using the Mobile Media Metadata framework, you will develop a *faceted* and *monohierarchical* metadata framework that is both appropriate for your own application and maximizes reusability for the overall photo database.

- *Faceted* means having multiple, differentiated top hierarchy levels (no single root node).
- *Monohierarchical* means a node will always have just one immediate parent.

For guidelines on how to create a faceted classification, please refer to the following handouts distributed in class:

- Faceted Classification: A Guide to the Construction and Use of Special Schemes by B.C. Vickery (pp. 9–31)
- Organizing Knowledge 2nd Edition by Jennifer E. Rowley (pp. 183–190)

See also the handout that uses the location descriptor (used by the MMM application) to illustrate the difference between a **faceted** and **hierarchical** classification.

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. Write a short rationale explaining your metadata design choices, strengths, and weaknesses.

There is no set limit for the breadth and depth of the metadata framework. However, realize that because we are using a phone interface to view and use the metadata, the complete framework cannot be easily displayed or navigated on the phone user interface. Instead, in assignments to follow, only a few levels of the framework will be made available for annotation. With this in mind, comment on 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, time of capture, user information, etc.) to help determine which part of your metadata framework to present to the user?

Time Estimate:

It should take you no more than 10 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 metadata server and annotation interface, and the Flamenco faceted metadata browser, please comply with the following requirements when creating your metadata framework:

- A descriptor node must have a unique name within a facet
- Separate each word in a descriptor name with a space
- Capitalize the first letter of each word in a descriptor name
- Use at most 18 characters for the descriptor name including spaces
- Do not use any of the following characters in a descriptor name:
 - < (less than)
 - > (greater than)
 - & (ampersand)
 - \t (tab)
 - ; (semicolon)
 - ' (apostrophe)

3. FORMAT

To successfully upload your new metadata framework into the Flamenco and MMM applications, 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 database:

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 SIGN-UP

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. The meeting will be held in 205 South Hall on Thursday, October 2. Your group will need to sign-up before September 30 for one of the following 7 meeting slots:

2:00 – 2:30
 2:30 – 3:00

3:00 – 3:30

3:30 – 4:00

4:00 – 4:30

4:30 – 5:00

5:00 – 5:30

Please e-mail your top 3 preferences to is202-ta@sims.berkeley.edu and you will be accommodated on a first-come-first-serve basis. You will receive an e-mail indicating the slot to which you are assigned. Ensure that at least 4 team members can be present at the meeting.

5. SUBMISSION REQUIREMENTS

PROCESS:

- Review guidelines for creating and examples of faceted classification
- Create a metadata framework that complies with the guidelines
- Write up a rationale for the metadata framework
- Write up a description of the challenges of designing a metadata framework for a mobile media device
- Create a spreadsheet of your metadata framework in the specified format
- Select top 3 meeting preferences

DELIVERABLES

1. Brief rationale for metadata framework
2. Brief description of challenges in creating metadata for mobile media device
3. Excel spreadsheet with the metadata framework
4. List of top 3 meeting preferences

Submit an email to is202-ta@sims.berkeley.edu with the URL to your Assignment 4 web page (due October 2, before class). Your Assignment 4 web page should include links to the:

1. Rationale
2. Description of challenges
3. Spreadsheet containing your metadata framework

Submit an email to is202-ta@sims.berkeley.edu with your meeting preferences before October 2.

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